

Tamarin

TAMARIN MARINE PAINTS LTD.





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INTRODUCTION

TAMARIN MARINE PAINTS is a fully owned subsidiary of Tambour Paint and Chemicals, the leading paint manufacturer in the Middle East.

Tamarin produces a comprehensive range of products starting with the simplest alkyd and acrylic paints to advanced epoxy, polyurethane, surface tolerant paints and self polishing antifoulings. Also, environmental friendly tin free antifoulings, solvent-less and tar free, light colored tank coatings.

During four decades Tamarin has supplied paints to New Building projects for all types of vessels, such as 15 container vessels - 3500 teu at HDW, Germany, 5 container vessels in China and submarines in Germany.

Tamarin supplies special and high quality coatings to naval projects, including submarines, missile and fast patrol boats, etc. Tamarin also supplies docking and maintenance paints to vessels of Zim Lines, Ofer Bros, MSC, Zodiac, Norasia, Mano Maritime, ACM etc.

The success of Tamarin paints is largely due to its ultra modern facilities backed up by advanced R&D and high standard of quality control, which together with a highly qualified team of painting supervisors are the basis of Tamarin reputation among ever increasing list of satisfied ship owners.

The efficiency of a coating depends not only on the quality of the paint but equally on the close supervision of the preparation prior to application of the paint. Tamarin employs dedicated technicians who oversee the work and advise ship owners, vessel's crews, dockyards and contractors on how to obtain maximum results from the coating.

Please observe that the following are basic maintenance specifications and other alternatives can be "tailor made" for your particular use.



CONVENTIONAL PAINTS





TAMARIN COMPACT PRIMER

CONVENTIONAL PAINT

CODE: 802-500 Red, 802-503 Off White, 802-504 Grey

DESCRIPTION:

A multi purpose, fast drying, high build anticorrosive primer, lead and chromate free, for use on exterior and interior steel. Tamarin Compact Primer is recoatable with synthetic and chlorinated resins paints. Tamarin Compact Primer is approved by LLOYDS as a low flame spread material. Tamarin Compact Primer is approved for use in grain carriers.

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Gloss	Flat
Colors	Red, Grey, Off white
Specific gravity-Kg/Lt	1.32
Volume Solids	45%
Film Thickness – Dry	70 mic
Wet	160 mic
Theoretical coverage	6.43 sqm/lit.
Flash Point	25°C
Drying Time –Touch	1 hour
Hard	24 hrs
Shelf Life	24 months
V.O.C.	466 g/liter

APPLICATION DETAILS:

Application Method	Airless Spray	Brush/Roller
Quantity of thinner	0-5%	5-10%
Recommended Nozzle Orifice	0.21"	
Recommended Inlet Pressure	5 atm	
Cleaning Thinner	1-32	1-32
Recoating Interval	Min 4 hrs (20°C) See remarks	
Pot life	N/A	

DRYING TIME AT 70 MIC DFT:

Air Temperature	Touch Dry	Over coating Interval/Self		Over coating interval Tamarin / Tamaplast	
		Min	Max	Min	Max
5° C	3 hours	8 hours	-	10 hrs	-
10° C	2 hours	6 hours	-	8 hrs	-
20° C	1 hour	4 hours	-	6 hrs	-
30° C	½ hour	2 hours	-	4 hrs	-



SURFACE PREPARATION & APPLICATION:

New steel – Remove oil, grease & other contamination with a suitable degreaser (Ecoclean 2230). Remove salt by high pressure fresh water. Abrasive blasting to minimum Sa 2.5 profile of 40-50 microns depth. If blasting isn't possible – power cleaning to St 3.

Maintenance – Remove oil and grease with a suitable degreaser. Remove salt and other contamination by high pressure – fresh water. Remove rust and loose paint by abrasive blasting or power tool cleaning. Dust off residues, and touch up to full film thickness. Apply 3 coats of Tamarin Compact Primer 60 microns each, followed by Tamarin Topcoat/ Super – 50 microns dry film thickness.

APPLICATION CONDITION:

Surface must be clean and dry at time of application. The temperature of the substrate should be min. 3°C. above the dew point.

STORAGE AND PACKING:

Store in cool and dry condition.

Packaging Size: 5 & 20 liters

REMARKS:

Stir well before use. The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions. The interval given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 2/1. Handle with care. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes (gloves, goggles, face mask barrier cream, etc.). Avoid inhalation of possible solvent vapors or paint mist. Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. In case of contamination, rinse with fresh running water and seek medical help at once. Since this product contains flammable materials, keep away from sparks and open flames.

BASIC SAFETY PRECAUTIONS:

No smoking should be permitted in the area. Observe all precautionary. Notices on containers. Additional safety information is available on request.

The information in this data sheet is given in good faith and to the best of our knowledge. It is subject to revision from time to time, in light of experience and our policy of continues Product development. Since condition of application and service may be beyond our control, no liability can be accepted on basis of this data.



TAMARIN SUPER ALUMINUM 045

CONVENTIONAL PAINT

CODE: 803-010

DESCRIPTION:

Finish coat for exterior and interior use, with heat resisting properties, based on modified hydrocarbon resin and pigmented with aluminum.

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Gloss	Glossy
Color	Aluminum
Specific gravity-Kg/Lt	0.99
Volume Solids	43%
Film Thickness – Dry	25 mic per coat
Wet	60 mic
Theoretical coverage	17.20 sqm/lit.
Flash Point	25°C
Drying Time –Touch	1 hour
Hard	24 hrs
Shelf Life	24 months
V.O.C.	486 g/liter

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Quantity of thinner	0-5%	5-10%
Recommended Nozzle Orifice	0.21"	
Recommended Inlet Pressure	4-5 atm	
Cleaning Thinner	1-32	01-1
Recoating Interval	Min 16 hrs (20°C)	
Potlife	N/A	

SURFACE PREPARATION:

New steel – Surface properly primed with Tamarin Compact Primer. Remove oil, grease, salt and any other foreign matter prior to application. Can be applied over intact conventional paints.

Maintenance – Repair rusted areas with Tamarin Compact Primer. Remove oil, grease, salt and any other foreign matter prior to application, and apply 2 coats of Tamarin Super Aluminum 045.

**APPLICATION CONDITION:**

The surface must be clean and dry at time of application. The temperature of the substrate should be min. 3°C above the dew point.

STORAGE AND PACKING:

Store in cool and dry condition.

Packaging Size: 5 Liters.

REMARKS:

Stir well before use. A minimum drying time of 3 days should be allowed before exposure to heat. The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions. The interval given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 1/1. Handle with care. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet.

Avoid direct contact with skin and eyes (gloves, goggles, face mask barrier cream, etc.).

Avoid inhalation of possible solvent vapors or paint mist.

Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant.

In case of contamination, rinse with fresh running water and seek medical help at once.

Since this product contains flammable materials, keep away from sparks and open flames.

BASIC SAFETY PRECAUTIONS:

No smoking should be permitted in the area. Observe all precautionary notices on containers. Additional safety information is available on request.

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TAMARIN B.T.D/TOPCOAT

CONVENTIONAL PAINT

CODE: 803-050 Red

DESCRIPTION:

A high quality alkyd finishing coat for exterior and interior use, with good weather resistance and color retention. Can be used as a general purpose topcoat in conventional systems on exterior and interior steel and wood in marine environment, and as a finishing coat in engine rooms, for walls, main engines, auxiliary machinery and tank tops.

Easy application by brush & roller. Not suitable for immersion in water.

Tamarin B.T.D Red & Tamarin Topcoat Grey 724 (only) are approved for use in grain carriers.

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Gloss	Semi Gloss
Colors	Red Oxide 606*
Specific gravity-Kg/Lt	1.08
Volume Solids	39%**
Film Thickness – Dry	40 mic
Wet	100 mic
Theoretical coverage	9.75 sqm/lit.
Flash Point	25°C
Drying Time – Touch	2 hours
Hard	24 hrs
Shelf Life	24 months
V.O.C.	406 g/liter**

* Also available in other shades, including Ral.

** Depending on color

APPLICATION DETAILS:

Application Method	Airless Spray	Brush/Roller
Quantity of thinner	0-5%	5-10%
Recommended Nozzle Orifice	0.21"	
Recommended Inlet Pressure	5 atm	
Cleaning Thinner	1-32	01-1
Re coating Interval	Min 24 hrs (20°C)	
Pot life	N/A	

**CODE NUMBERS FOR OTHER TAMARIN B.T.D. / TOPCOAT:**

803-051 Green 430 803-052 Green 409 803-053 Blue 840 803-054 Blue 845
803-060 Blue 800 803-102 Black 202 803-127 Grey 724

SURFACE PREPARATION:

New steel – Surface properly primed with Tamarin Compact Primer. Remove oil, grease, salt and any other foreign matter prior to application. Tamarin B.T.D / Topcoat can be applied over intact conventional paints.

Maintenance – Repair rusted areas with Tamarin Compact Primer. Remove oil, grease, salt and any other foreign matter prior to application, and apply with Tamarin B.T.D. / Topcoat.

APPLICATION CONDITION:

The surface must be clean and dry at time of application.

Do not apply when relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point.

STORAGE AND PACKING:

Store in cool and dry condition.

Packaging Size:

20 liters, Green 430, Blue 840 – in 5 liters & 20 liters.

REMARKS:

Stir well before use.

Thinner may be required to obtain application viscosity.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The interval given assumes preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 1/1. Handle with care. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes (gloves, goggles, face mask barrier cream, etc.). Avoid inhalation of possible solvent vapors or paint mist. Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. In case of contamination, rinse with fresh running water and seek medical help at once. Since this product contains flammable materials, keep away from sparks and open flames.

BASIC SAFETY PRECAUTIONS:

No smoking should be permitted in the area. Observe all precautionary Notices on containers. Additional safety information is available on request.

The information in this data sheet is given in good faith and to the best of our knowledge. It is subject to revision from time to time, in light of experience and our policy of continuous Product development. Since condition of application and service may be beyond our control, no liability can be accepted on basis of this data.



TAMARIN SUPER

CONVENTIONAL PAINT

CODE: 803-201 White 101
803-203 Cream 115

DESCRIPTION:

A high quality glossy alkyd finishing coat for exterior and interior use, with good weather resistance and color retention. Can be used as a general purpose topcoat in conventional systems on exterior and interior steel and wood in marine environment, and as a finishing coat in engine rooms, for walls, main engines, auxiliary machinery and tank-tops. Not suitable for immersion in water or continuous splash of water.

Tamarin Super White is approved by LLOYDS as a low flame spread characteristic material, complies to IMO Fire Test Procedures Code, Part 5 and Annex 2, §2 .

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Gloss	Glossy
Colors	White *
Specific gravity-Kg/Lt	1.14
Volume Solids	50% **
Film Thickness – Dry	35 mic
Wet	70 mic
Theoretical coverage	14.25 sqm/lit.
Flash Point	39°C
Drying Time –Touch	2½ hours
Hard	24 hrs
Shelf Life	24 months
V.O.C.	426 g/liter

* Also available in other shades, including Ral.

** Depending on color

APPLICATION DETAILS:

Application Method	Airless Spray	Brush/Roller
Quantity of thinner	0-5%	5-10%
Recommended Nozzle Orifice	0.17"	
Recommended Inlet Pressure	5 atm	
Cleaning Thinner	1-32	01-1
Re coating Interval	Min 24 hrs (20°C)	
Pot life	N/A	

**SURFACE PREPARATION:**

New steel – Surface properly primed with Tamarin Compact Primer, or Tamarin undercoat. Remove oil, grease, salt and any other foreign matter prior to application. Can be applied over intact conventional paints.

Maintenance – Repair rusted areas with Tamarin Compact Primer, Remove oil, grease, salt and any other foreign matter prior to application, and apply with Tamarin Super.

APPLICATION CONDITION:

The surface must be clean and dry at time of application. Do not apply when relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point

STORAGE AND PACKING:

Store in cool and dry condition.

Packaging Size:

5 & 20 liters for Tamarin Super White, 20 liters for Cream.

REMARKS:

Stir well before use.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The interval given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 1/1. Handle with care. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes (gloves, goggles, face mask barrier cream,, etc.). Avoid inhalation of possible solvent vapors or paint mist. Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. In case of contamination, rinse with fresh running water and seek medical help at once. Since this product contains flammable materials, keep away from sparks and open flames.

BASIC SAFETY PRECAUTIONS:

No smoking should be permitted in the area. Observe all precautionary notices on containers. Additional safety information is available on request.

The information in this data sheet is given in good faith and to the best of our knowledge. It is subject to revision from time to time, in light of experience and our policy of continues product development. Since condition of application and service may be beyond our control, no liability can be accepted on basis of this data.



UNDER WATER



**TAMAPLAST H.B. METALLIC GREY 820****UNDER WATER**

CODE: 822-200 – Metallic Grey

DESCRIPTION:

A high build fast drying anticorrosive primer for submerged and non submerged areas, based on chlorinated resins and pigmented with aluminum; good water and weather resistance. For wooden and steel surfaces.

TECHNICAL DATA:**PHYSICAL DETAILS: AT 25°C & 65% RH**

Gloss	Flat
Colors	Metallic grey
Specific gravity - Kg/Lt	1.30
Volume Solids	46 %
Film Thickness – Dry	80 mic.
Wet	180 mic.
Theoretical coverage	5.75 m ² /lit.
Flash Point	25°C
Drying Time – Touch	1 hour
Hard	24 hours
Shelf Life	24 months
V.O.C.	456 g/liter

APPLICATION DETAILS:

Application Method	Airless Spray	Brush/Roller
Quantity of thinner (max. vol)	1-32 (5%)	1-32 (5%)
Recommended Nozzle Orifice	0.023"	
Recommended Inlet Pressure	5-6 atm	
Cleaning Thinner	1-32	1-32
Recoating Interval	see remarks	

DRYING TIME AT 80 MIC DFT:

Air Temperature	Touch Dry	Overcoating Interval		
		Self		Antifouling Product
		Min	Max	Min
-10°C	10 hours	48 hours	-	72 hours
-5°C	8 hours	36 hours	-	48 hours
0°C	6 hours	24 hours	-	36 hours
5°C	3 hours	16 hours	-	24 hours
10°C	2 hours	10 hours	-	20 hours
25°C	1 hours	8 hours	-	12 hours

**SURFACE PREPARATION:**

Fresh water to remove dirt and salt contamination. Degreasing. Blast cleaning to SA 2.5 or on top of Epitamarin EA 9 Aluminum.

On spots:

Feather or chip back surrounding area to a sound edge, overlap onto existing coating by 5 cm (2-3 coats).

APPLICATION CONDITION:

Make sure the area is clean and dry prior to application. Observe the over coating intervals specified for the primer. Optimum performance is achieved when Tamaplast H.B. metallic is applied over blasted steel.

STORAGE AND PACKING:

The product should be kept in a cool and well ventilated place. Containers must be kept tightly closed.

Packaging Size:

1 liter, 2.5 liters, 20 liters

REMARKS:

Brush or roller may be used for smaller areas. Can be overcoated by Antifoulings and c/r topcoats.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The intervals given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 2/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid contact with skin and eyes (Gloves, goggles, face mask, barrier creams, etc.). Provide adequate ventilation. If the product comes in contact with the skin, wash with water and soap. If eyes are contaminated flush with water and obtain medical advice.

BASIC SAFETY PRECAUTIONS:

This product contains flammable materials. Keep away from sparks and open flames. No smoking should be permitted in the area. Observe all precautionary notices on containers. Additional safety information is available on request.

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**SILVERPLAST****UNDER WATER**

CODE: 822-220 – Black 822-230 – Black Brown

DESCRIPTION:

A high build anticorrosive primer specially designed for submerged areas, based on tar modified chlorinated resins. For new building, maintenance and repair. Low temperature application. Compatible with a wide range of antifoulings.

TECHNICAL DATA:**PHYSICAL DETAILS: AT 25°C & 65% RH**

Gloss	Flat
Colors	Black, Silver brown
Specific gravity-Kg/Lt	1.24
Volume Solids	48 %
Film Thickness - Dry	75 mic.
Wet	160 mic.
Theoretical coverage	6.4 sqm/lit.
Flash Point	25°C
Drying Time -Touch	1 hour
Hard	24 hours
Shelf Life	12 months
V.O.C.	448 g/liter

APPLICATION DETAILS:

Application Method	Airless Spray	Brush/Roller
Quantity of thinner (max. vol)	1-32 (5%)	1-32 (5%)
Recommended Nozzle Orifice	0.023"	
Recommended Inlet Pressure	5-6 atm	
Cleaning Thinner	1-32	1-32
Recoating Interval	See remarks	

DRYING TIME AT 100 MIC DFT:

Air Temperature	Touch Dry	Overcoating Interval		
		Self		Antifouling Product
		Min	Max	Min
-10°C	10 hours	36 hours	-	48 hours
-5°C	8 hours	24 hours	-	48 hours
0°C	6 hours	18 hours	-	18 hours
5°C	3 hours	12 hours	-	12 hours
10°C	2 hours	8 hours	-	8 hours
25°C	1 hours	6 hours	-	6 hours



SURFACE PREPARATION & APPLICATION:

Silverplast should be applied in accordance with the specification given by Tamarin. Fresh water high pressure to remove dirt and salt contamination.

Degreasing. Blast cleaning to SA 2.5 to achieve 60 microns profile, or on top of Epitamarin EA 9. 3 coats of 75 microns each should be applied.

On spots: Feather or chip back surrounding area to a sound edge, overlap onto existing coating by 5 cm.

APPLICATION CONDITION:

Ensure the area is clean and dry prior to application. Observe the over coating intervals specified for the primer. Optimum performance is achieved when Silverplast is applied over blasted steel.

Do not apply when relative humidity exceeds 90% or when the surface to be coated is less than 3°C above the dew point.

STORAGE AND PACKING:

The product should be kept in a cool and well ventilated place. Containers must be kept tightly closed..

Packaging size:

20 Liters.

REMARKS:

Do not apply over areas above water line as “bleeding” may occur. Brush or roller may be used for smaller areas. The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions. The interval given assumes preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 1/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid contact with skin and eyes. (Gloves, goggles, face mask, barrier creams, etc.) Provide adequate ventilation. If the product comes in contact with the skin, wash with water and soap. If eyes are Contaminated flush with water and obtain medical advise.

BASIC SAFETY PRECAUTIONS:

This product contains flammable materials. Keep away from sparks and open flames. No smoking should be permitted in the area. Observe all precautionary notices on containers. Additional safety information is available on request.

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ANTIFOULING SEA CARE HARMONY 793L

UNDER WATER

CODE: 823-019 Red
823-021 Blue
823-022 Black
823-023 Schokolade

DESCRIPTION:

A high-performance, purely Self polishing, IMO-compliant, next generation and revolutionary developed organotin-free antifouling. Antifouling Sea care Harmony 793 ensures maximum protection to any type of oceangoing and coastal vessel under broad range of marine fouling organisms with its unique formulation, and guarantees no effect on the marine environment. Approved as a TBT-free antifouling by Det Norske Veritas (DNV), Lloyd's Register of shipping (LR), Germanischer Lloyd (GL), American Bureau of Shipping (ABS) & Korean Register of Shipping (KR).
Recommended use: for new building or repair ship.

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Gloss	Satin
Colors	Red, blue, black
Specific gravity - Kg/Lit	1.70
Volume Solids	50%
Film Thickness – Dry	100 mic
Wet	200 mic
Theoretical coverage	5 m ² /lit.
Flash Point	26°C
Drying Time - Touch	2 hours
Hard	12 hours (at 20°C 65% R.H.)
Shelf Life	12 months
V.O.C.	439 g/liter

APPLICATION DETAILS:

Application Method	Airless Spray	Brush/Roller
Quantity of thinner (max. vol)	1-32 (5%)	1-32 (5%)
Recommended Nozzle Orifice	0.21"- 0.27"	
Recommended output Pressure	5 atm	
Cleaning Thinner	1-32	1-32
Recoating Interval	Minimum: 8 hrs (20° C)	
Maximum : Free		

**SURFACE PREPARATION:**

Surface properly primed with heavy duty anticorrosive paint system or over existing antifouling as long as the old coatings are in sound condition and are tightly adhered. The surface to be applied should be dry and free from any contamination - oil, grease, salt, etc. Apply 3 coats of a/f 100 microns each.

APPLICATION CONDITION:

The surface must be clean and dry at time of application. The temperature of the substrate should be min. 3°C. above the dew point. Do not apply when relative humidity is above 85%. In confined areas, ventilate with clean air during application to assist solvent evaporation.

STORAGE AND PACKING:

The product must be stored in accordance with national regulations. The product should be kept in a cool and well ventilated place protected from too high temperatures. Containers must be tightly closed.

Packaging Size: 18 liters

REMARKS:

This product contains heavy particles. Stir well before & while use.

Floating: Minimum undocking time depends on number of coats applied, film thickness and temperature, but not less than 24 hours after completion of application.

Never apply antifouling on bare metal.

- Antifouling Sea Care Harmony 793 & 795 are produced by KCC.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The interval given assumes preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 1/4. Handle with care. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes (gloves, goggles, face mask barrier cream, etc.). Avoid inhalation of possible solvent vapors or paint mist. Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. In case of contamination, rinse with fresh running water and seek medical help at once. Since this product contains flammable materials, keep away from sparks and open flames.

BASIC SAFETY PRECAUTIONS:

Safety precautions must be observed due to toxic content.

No smoking should be permitted in the area. Observe all precautionary

Notices on containers. Additional safety information is available on request.

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EPOXY



**HSIR 88****EPOXY**

CODE: 648-007 White
648-009 Blue

DESCRIPTION:

Two-component, high solids epoxy coating for application to potable water, gas and mixed product lines. Offers excellent corrosion protection combined with good resistance to a wide range of liquids and gases including sour gas.

Ksir 88 meets the requirements of BS6920 and is Water Regulation Advisory Scheme – approved product for potable water contact and is suitable for drinking water tanks and swimming pools. Excellent adhesion to both, grit blasted and manually prepared surfaces. Good resistance to abrasion and mechanical damage. Unaffected by fuel oil, chemical products, aviation fuel and sour gas mixtures. Excellent corrosion resistance on correctly prepared surfaces. Suitable for use up to 120°C dry heat.

TECHNICAL DATA:**PHYSICAL DETAILS: AT 25°C & 65% RH**

Gloss	Satin
Colors	Off-White & Blue
Specific gravity-Kg/Lt	1.30
Volume Solids	65 %
Film Thickness - Dry	125 – 130 mic.
Wet	200 mic.
Theoretical coverage	5.2 sqm/lit.
Flash Point	25°C
Drying Time -Touch	1 hours
Hard	8 hours
Overcoating at 25°C	6 hours Min. 48 hours Max.
Shelf Life	24 months
V.O.C.***	300 gm/liter***

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	3.5:1	
Quantity of thinner (max. volume)	4-100 (10%)	4-100 (15%)
Recommended Nozzle Orifice	0.021	
Recommended Inlet Pressure	6 atm	
Cleaning Thinner	4-100	4-100
Recoating Interval	See remarks	
Pot life	4 hours	

*** Thinning for spray application will increase the applied V.O.C.



SURFACE PREPARATION:

New surfaces: Degreasing, remove weld spatter. Smooth weld seams and sharp edges. Blast to SA. 2.5. to achieve profile of 70 microns. Apply before oxidation occurs. Area should be clean and dry prior to application.

Old surfaces, or where blasting cannot be carried out: Freshwater wash to remove dirt and salt contamination, degreasing and rinsing. The surface should be thoroughly mechanically abraded to ST3 .Feather or chip back surrounding area to a sound edge. Area should be clean and dry prior to application.

Concrete: Concrete surfaces should be cleaned, dry and free from loose dirt and laitance. Approved methods of preparation are, light abrasive blasting, acid etching, scarifying, high pressure water jetting etc. In most situations a recommended primer/sealer coat will be required.

APPLICATION CONDITION:

Mixing: Stir the contents of part A, continue stirring and gradually add the contents of part B, continue stirring until a homogeneous mix is obtained.

Do not apply when relative humidity exceeds 90% or when surface to be coated is less than 3°C above the dew point. Ksir 88 can be applied by brush, roller, spray or the pipeline pig method. For new pipelines, airless spray is the preferred method. Ksir 88 may require thinning for spray application. In this case use Epitamarin Thinner 4-100. Up to 10% thinner may be added (by volume).

STORAGE AND PACKING:

Store in cool and well ventilated place. Containers must be kept tightly closed.

Packaging Size: 18 & 5 liters.

REMARKS:

For fresh water tank it is recommended to apply 3 coats of 100 - 125 mic. dft. each. Tanks to be used 7 days after application. (Tanks should be ventilated during application and the following 7 days). The numerical information quoted in the data sheet is subject to normal manufacturing tolerance. Practical coverage can vary depending on application, structure and weather conditions. Volume solids figures given is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

Intervals given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 2/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation. If product comes in contact with skin wash with warm water and soap. If eyes are contaminated flush with water for 10 minutes and obtain medical attention.

BASIC SAFETY PRECAUTIONS:

Keep away from sparks and open flames. No smoking should be permitted in the area. Observe precautionary notices on containers.

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**EPOGAL****EPOXY**

CODE: 649-050

DESCRIPTION:

A high quality two component recoatable polyamide anticorrosive primer, for use as a primer on Galvanized steel, Aluminum & steel. Ideal tie coat over inorganic zinc primers. Suitable for chlorinated rubber, vinyl, epoxy and polyurethane topcoats. EPOGAL is fast drying, multipurpose primer, easily applied with all types of application equipment, for marine and industrial uses.

TECHNICAL DATA:**PHYSICAL DETAILS: AT 25°C & 65% RH**

Gloss	Flat
Color	Buff
Specific gravity-Kg/Lt	1.36
Volume Solids	50%
Film Thickness – Dry	70 mic.
Wet	140 mic.
Theoretical coverage	7.14 sqm/lit.
Flash Point	26°C
Drying Time –Touch	5-10 minutes
Hard	24 hours
Shelf Life	24 months
V.O.C.	430 g/liter

APPLICATION DETAILS:

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	9:1	
Quantity of thinner	0-10%	0-30%
Recommended Nozzle Orifice	0.021"	
Recommended Inlet Pressure	5 atm	
Cleaning Thinner	4-100	4-100
Recoating Interval	See remarks	
Potlife	8 hours	

DRYING TIME AT 50 MIC DFT:

Air Temperature	Touch Dry	Overcoating Interval		
		Self		Antifouling Product
		Min	Max	Min
-5°C	1½ hour	24 hours	1 year	
0°C	1 hour	18 hours	1 year	
10°C	45 min.	10 hours	1 year	
20°C	30 min.	6 hours	1 year	
30°C	20 min.	4 hours	1 year	



SURFACE PREPARATION:

New surfaces: steel - Degreasing. Remove weld spatter and smooth weld seams and sharp edges. Blast to SA 2.5 to achieve a profile of 50-70 microns. Apply before oxidation occurs. Area should be clean & dry prior to application.

Galvanized steel: Degreasing. Light abrasive sweeping to secure adhesion. If sweeping is not practical, clean by solvent, sand the area, then apply Epogal.

As a tie coat on zinc silicates: - The shop primer surface should be dry and clean of any foreign matter prior to application. On aluminum: Degreasing. Blast the area to SA 2.0

On Fiberglass: Degreasing. Sand the area. Make sure area is clean and dry prior to application.

APPLICATION CONDITION:

Area should be clean and dry prior to application. Temperature should be above the dew point during application. All areas difficult to cover properly by spray application should be stripe coated with a brush, immediately before spray application.

STORAGE AND PACKING:

Store in cool and dry condition.

Packing: 5.0 & 18 Liter.

REMARKS:

This product will not cure adequately below 0°C.

* For application with roller on fiberglass paint should be diluted by 30% Thinner 4-100.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The interval given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 2/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation if product comes in contact with skin wash with warm water and soak. If eyes are contaminated flush with water for 10 minutes and obtain medical attention.

BASIC SAFETY PRECAUTIONS:

This product contains flammable materials. Keep away from sparks and open flames. No smoking should be permitted in the area. Observe all precautionary notices on containers. Additional safety information is available on request.

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**EPOTRAN 400****EPOXY**

CODE: 660-029 – Epotran 400 Black, 660-033 – Epotran 400 Brown

DESCRIPTION:

A two component high solid coaltar epoxy coating. Highly resistant to crude oil, sea water, fuel oil and waste water. Epotran 400 is recommended for long term corrosion protection of underwater hull of steel vessels, ballast and crude oil tanks. For new building, maintenance and repair. Other typical areas are concrete in severe corrosive immersed environments, steel buried in aggressive soil, pipelines of steel and concrete, steel and concrete in sewage treatment plants, etc.

TECHNICAL DATA:**PHYSICAL DETAILS: AT 25°C & 65% RH**

Gloss	Flat
Colors	Black, Brown
Specific gravity-Kg/Lt	1.4
Volume Solids	80%
Film Thickness – Dry	200 mic.
Wet	250 mic.
Theoretical coverage	4.0 sqm/lit.
Flash Point	26°C
Drying Time –Touch	7 hours
Hard	24 hours
Shelf Life	24 months
V.O.C.	175 g/liter

APPLICATION DETAILS:

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	1:1	
Quantity of thinner	0-5%	10-15%
Recommended Nozzle Orifice	0.026"	
Recommended Inlet Pressure	5-6 atm	
Cleaning Thinner	4-100	4-100
Recoating Interval	See remarks	
Potlife	2 hours	

DRYING TIME AT 150 MIC DFT: •Winter grade

Air Temperature	Touch Dry	Overcoating Interval		
		Self		Antifouling Product
		Min	Max	Min
0°C*	10 hours	28 hours	96 hours	
5°C*	6 hours	20 hours	72 hours	
10°C	12 hours	24 hours	60 hours	
20°C	8 hours	16 hours	48 hours	
30°C	4 hours	12 hours	48 hours	



SURFACE PREPARATION:

New Steel: Abrasive blasting to SA 2.5. For temporary protection a suitable Shopprimer may be used, followed by two coats of 150 mic DFT each, or Epitamarin Solekote Aluminum 100 mic, followed by 2 coats of 150-200 microns each.

Repair and maintenance: Remove oil, grease etc with suitable detergent. Remove salt and other contaminators by high pressure fresh water. Clean damaged areas by abrasive blasting. Feather edges to sound and intact areas. Remove dust. Touch up to full film thickness.

Concrete: Remove slip agent and other possible contaminants by emulsion washing followed by high pressure hosing with fresh water. Remove scum layer and loose matter to a hard, rough and uniform surface, preferably by abrasive blasting, possibly by other mechanical treatment or acid etching. Apply one coat of Epicatalac Clear, after 4 hours apply 1-2 coats of Epotran 400.

APPLICATION CONDITION:

Use only where application and curing can proceed at temperature above 7°C. The temperature of the surface and that of the paint itself must also be above this limit. For temperature below 7°C use Epotran 400 Winter. If EPOTRAN 400 was exposed to sunlight, Overcoating must be within 36 hours. If interval is exceeded, area must be swept. Areas difficult to cover like edges, corners and welds should be stripe coated before and after spray application. Airless spray equipment: A large pump (min. 45:1) is preferred.

STORAGE AND PACKING:

The product should be kept in a cool and dry condition. Packing: 18 Lit.

REMARKS:

Two coats of 150 mic. each is recommended. Bleeding may occur into subsequent coats. The effect is cosmetic only. Tanks should not be taken into use before Epotran 400 is fully cured. Epotran 400 is for professional use only.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The interval given assumes preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 2/1. Handle with care. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes (gloves, goggles, face mask barrier cream, etc.) Harmful or fatal if swallowed. Immediately seek medical assistance if swallowed. Avoid inhalation of possible solvent vapors or paint mist. Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Take precautions against the risks of fire and explosives.

BASIC SAFETY PRECAUTIONS:

No smoking should be permitted in the area. Observe all precautionary notices on containers. Additional safety information is available on request.

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EPITAMARIN ZINC RICH EPOXY

EPOXY

Code no. 842-100

DESCRIPTION:

Epitamarin zinc rich epoxy is a two-component, fast drying, zinc rich epoxy primer, with high zinc content. It cures to a hard wearing and is high weather and corrosion resistant coating. Offers cathodic protection of local mechanical damage. Can be used as a long term primer on steel, for epoxy, vinyl polyurethane and acrylic systems, and as a shop primer/primer. Other uses: refineries, port cranes, bridges, piers, offshore platforms etc. On ships and barges: Superstructures, decks, hull, hatch covers etc. Complies with SSPC Paint 20, ISO 12944 part 5.

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Gloss	Flat
Colors	Grey
Specific gravity-Kg/Lt	2
Volume Solids	50%
Film Thickness – Dry	Dry 75 mic Wet 150 mic.
Theoretical coverage	6.7 sqm/lit.
Flash Point	26°C
Drying Time –Touch	Touch -5-10 minutes Hard 24 hours
Shelf Life	12 months
V.O.C.	462 g/liter

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	4:1	
Quantity of thinner	0-10%	0-20%
Recommended Nozzle Orifice	0.021"	
Recommended Inlet Pressure	5 atm	
Cleaning Thinner	4-100	4-100
Recoating Interval	See remarks	
Potlife (20°C)	8 hours	

DRYING TIME AT 50 MIC DFT

Air Temperature	Touch Dry	Over coating Interval By Epoxy *	
		Min	Max
5°C	5 hours	24 hours	30 days
10°C	2 hours	12 hours	30 days
20°C	5-10 min.	4 hours	30 days
30°C	4 min.	3 hours	30 days



SURFACE PREPARATION:

New steel – Remove oil and grease with suitable detergent. Remove salt and other contamination by high pressure – fresh water cleaning. Blast in accordance with SA 2.5 SIS 05 5900 – 1967 or ISO 8501-1. Blast to achieve a 25 to 50 mic profiles as determined with a Kean Tator Surface Profile Comparator. Remove abrasive residues and dust from surface. Apply as soon as possible after surface preparation to prevent any contamination.

Maintenance – Remove oil and grease with suitable detergent. Remove salt and other contaminations by high pressure – fresh water cleaning. Remove rust and loose material preferably by dry abrasive blasting. Feather edges to sound and intact areas. Dust off residues. Touch up to full film thickness. Minor areas may be tool cleaning.

APPLICATION CONDITION:

Area should be clean and dry prior to application. Temperature should be above the dew point during application.. All areas difficult to cover properly by spray application should be stripe coated with a brush, immediately before spray application. Stir thoroughly with a mixer to a homogeneous condition. If necessary add up to 5% Thinner 4-100.

STORAGE AND PACKING:

Store in cool and dry condition.

Packing: 20 Ltr.

REMARKS:

This product will not cure adequately below 5°C.

* If the maximum recoating interval is exceeded, roughening of the surface is necessary, to ensure intercoat adhesion. Before recoating, after exposure to contaminated environment, clean surface by high pressure fresh water. Allow to dry.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The interval given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 2/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation If product comes in contact with skin wash with warm water and soak. If eyes are contaminated flush with water for 10 minutes and obtain medical attention.

BASIC SAFETY PRECAUTIONS:

This product contains flammable materials. Keep away from sparks and open flames. No smoking should be permitted in the area. Observe all precautionary notices on containers. Additional safety information is available on request.

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**EPITAMARIN UNISEAL ZN****EPOXY**

CODE: 842-030 Brown
842-036 Off White

DESCRIPTION:

A high quality two component recoatable polyamide anticorrosive and weldable Primer. For use as a primer on Aluminum, galvanized steel, stainless steel, copper etc. Suitable as a tie coat between coaltar epoxy & old epoxy paints to Antifouling.

TECHNICAL DATA:**PHYSICAL DETAILS: AT 25°C & 65% RH**

Gloss	Flat
Colors	Brown & White
Specific gravity-Kg/Lt	1.20
Volume Solids	31%
Film Thickness – Dry	40 mic.
Wet	130 mic.
Theoretical coverage	7.75 sqm/lit.
Flash Point	17°C
Drying Time –Touch	30 min.
Hard	24 hours
Shelf Life	24 months
V.O.C.	510 g/liter

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Weight	10:1	
Quantity of thinner (max. vol)	0-10% (4-100)	0-30% (4-100) *
Recommended Nozzle Orifice	0.021"	
Recommended Inlet Pressure	5 atm	
Cleaning Thinner	4-100	4-100
Recoating Interval	12 hours	
Potlife	12 hours	

DRYING TIME AT 40 MIC DFT

Air Temperature	Touch Dry	Over coating Interval	
		Self	
		Min	Max
5°C	1 hour	24	Indefinite
10°C	45 min.	18	Indefinite
20°C	30 min.	16	Indefinite
30°C	20 min.	12	Indefinite

**SURFACE PREPARATION:**

As a holding primer: Degreasing, remove weld spatter and smooth weld seams and sharp edges. Blast to SA 2.5. Apply before oxidation occurs. Area should be clean and dry prior to application.

As a tie coat: The shop primer or coaltar epoxy or other epoxy paint surface should be dry and clean of any foreign matter prior to application.

On galvanized, aluminum: Blast the area to SA 2.0

APPLICATION CONDITION:

Area should be clean and dry prior to application. Temperature should be above the dew point during application.

As a welding primer: Do not exceed 20-25 mic DFT. All areas difficult to cover properly by spray application should be stripe coated with a brush, immediately before spray application.

STORAGE AND PACKING:

Store in cool and well ventilated place. Container must be kept tightly closed.

Packaging size: 5 Ltr, 18 Ltr.

REMARKS:

This product will not cure adequately below 0°C.

* For application with roller on fiberglass paint should be diluted by 30% Thinner 4-100.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The interval given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 3/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation. If product comes in contact with skin wash with warm water and soak.

If eyes are contaminated flush with water for 10 minutes and obtain medical attention.

BASIC SAFETY PRECAUTIONS:

This product contains flammable materials. Keep away from sparks and open flames. No smoking should be permitted in the area. Observe all precautionary notices on containers. Additional safety information is available on request.

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**EPITAMARIN EA 9 ALUMINIUM****EPOXY**

CODE: 842-050

DESCRIPTION:

A high quality two component recoatable polyamine anticorrosive and weldable Primer. For use as a holding primer for underwater area and above water line on steel, or a primer for aluminum and fiberglass (G.R.P.) Suitable as a tie coat between coal tar epoxy and antifouling. Recommended for use as a primer for steel that is constantly in touch with petroleum products, water, chemicals, oils, etc. Suitable as an interior coating for petrol tanks in system EA-5/EA9. This system is approved by the Paint Research Association for interior coating of storage tanks, petrol tanks and fuel tanks.

TECHNICAL DATA:**PHYSICAL DETAILS: AT 25°C & 65% RH**

Gloss	Flat
Colors	Metallic Red , Red Oxide, Cream
Specific gravity-Kg/Liter	1.20
Volume Solids	38%
Film Thickness – Dry	70 mic.
Wet	180 mic.
Theoretical coverage	5.42 sqm/lit.
Flash Point	21°C
Drying Time –Touch	1 hour
Hard	24 hours
Shelf Life	24 months
V.O.C.	530 g/litre

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	9:1	
Quantity of thinner (max. vol)	0-10% (4-100)	0-30% (4-100) *
Recommended Nozzle Orifice	0.021"	
Recommended Inlet Pressure	5 atm	
Cleaning Thinner	4-100	4-100
Recoating Interval	12 hours	
Potlife	8 hours	

DRYING TIME AT 50 MIC DFT

Air Temperature	Touch Dry	Overcoating Interval	
		Self	
		Min	Max
5°C	1 hour	24	Indefinite
10°C	45 min.	18	Indefinite
20°C	30 min.	16	Indefinite
30°C	20 min.	12	Indefinite



SURFACE PREPARATION:

As a holding primer: Degreasing, remove weld spatter and smooth weld seams and sharp edges. Blast to SA 2.5 to achieve a profile of 50-70 microns. Apply before oxidation occurs. Area should be clean and dry prior to application..

On aluminum: Blast the area to SA 2.0

On Fiberglass: Sand the area. Make sure area is clean and dry prior to application.

APPLICATION CONDITION:

Area should be clean and dry prior to application. Temperature should be above the dew point during application.

As a welding primer: Do not exceed 20-25 mic DFT. All areas difficult to cover properly by spray application should be stripe coated with a brush, immediately before spray application.

STORAGE AND PACKING:

Store in cool and well ventilated place. Container must be kept tightly closed.

Packing: 1 kg, 2.5 Ltr. 5.0 Ltr. 20 Ltr.

REMARKS:

This product will not cure adequately below 0°C.

* For application with roller on fiberglass paint should be diluted by 30% Thinner 4-100.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The interval given assumes preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 2/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation if product comes in contact with skin wash with warm water and soak. If eyes are contaminated flush with water for 10 minutes and obtain medical attention.

BASIC SAFETY PRECAUTIONS:

This product contains flammable materials. Keep away from sparks and open flames. No smoking should be permitted in the area. Observe all precautionary notices on containers. Additional safety information is available on request.

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**EPITAMARIN DIVINEX N.B****EPOXY**

CODE: 847-004 – Red 847-007 – Grey

DESCRIPTION:

A two-component, high build, recoatable polyamide epoxy coating. Can be top coated with no time limit. Used as a high-build intermediate coating for underwater and above water line, for epoxy, c/r, vinyl & polyurethane topcoats. Recommended for use on steel constructions. Designed for use in severe corrosive environment. Suitable as a tie coat between coaltar epoxy and antifoulings.

TECHNICAL DATA:**PHYSICAL DETAILS: AT 25°C & 65% RH**

Gloss	Flat
Colors	Red, Grey
Specific gravity - Kg/Lt	1.22
Volume Solids	45%
Film Thickness – Dry	100 mic.
Wet	230 mic.
Theoretical coverage	4.50 m ² /lit.
Flash Point	17°C
Drying Time – Touch	1 hour
Hard	24 hours
Shelf Life	24 months
V.O.C.	530 g/liter

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio A:B by Weight	16:1	
Quantity of thinner (max. volume)	0-5% (4-100)	0-5% (4-100)
Recommended Nozzle Orifice	0.023"	
Recommended Inlet Pressure	5 atm	
Cleaning Thinner	4-100	4-100
Recoating Interval	12 hours	
Pot-life	8 hours	

DRYING TIME AT 50 MIC DFT

Air Temperature	Touch Dry	Over coating Interval	
		Min (hours)	Max
5°C	2 hours	48	Indefinite
10°C	1 hour.	36	Indefinite
20°C	45 min.	24	Indefinite
30°C	30 min.	24	Indefinite

**SURFACE PREPARATION:**

Surface properly primed with Epitamarin EA9 Aluminum or Epitamarin Solekote.

Area should be clean and dry prior to application.

As a tie coat: The shop primer or coaltar epoxy surface should be dry and clean of any foreign matter prior to application.

APPLICATION CONDITION:

Area should be clean and dry prior to application. Temperature should be above the dew point during application.

STORAGE AND PACKING:

Store in cool and well ventilated place. Container must be kept tightly closed.

Packaging A+B: 5 Ltr (Part A – 4 Liters Part B – 1 Liter).

847-004 Epitamarin Divinex NB Red A+B, Part A 847-005, Part B 847-006.

847-007 Epitamarin Divinex NB Grey A+B, Part A 847-008, Part B 847-006.

REMARKS:

This product will not cure adequately below 0°C.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The intervals given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 3/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes (Gloves, goggles, face mask, barrier cream, etc.). Provide adequate ventilation. If product comes in contact with skin wash with warm water and soap. If eyes are contaminated flush with water for 10 minutes and obtain medical advice.

BASIC SAFETY PRECAUTIONS:

This product contains flammable materials. Keep away from sparks and open flames. No smoking should be permitted in the area. Observe all precautionary notices on containers. Additional safety information is available on request.

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**EPITAMARIN SOLEKOTE FD MIO GREY****EPOXY**

CODE: 843-825

DESCRIPTION:

A two component, surface tolerant, high solids, micaceous iron oxide, fast drying coating. Grants anticorrosive protection on mechanically prepared or hydro-blasted surface. Excellent anticorrosive protection. Suitable for Marine (submerged & above water line, ballast tanks) & Industrial environment. Can be used as a primer and topcoat on steel after mechanical cleaning to St 3. Compatible with various aged coatings. Over coat able with most types of coatings.

TECHNICAL DATA:**PHYSICAL DETAILS: AT 25°C & 65% RH**

Gloss	Semi – gloss
Colors	Grey
Specific gravity-Kg/Lt	1.48
Volume Solids	65%
Film Thickness – Dry	250 mic.
Wet	390 mic.
Theoretical coverage	2.60 sqm/lit.
Flash Point	25°C
Drying Time –Touch	2 hours
Hard	16 hours
Shelf Life	24 months
V.O.C.	313 g/liter

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	4:1	
Quantity of thinner	7%	15%
Recommended Nozzle Orifice	0.023	
Recommended Inlet Pressure	6 atm	
Cleaning Thinner	4-100	4-100
Recoating Interval	See remarks	
Pot life	8 hours	

DRYING TIME AT 100 MIC DFT

Air Temperature	Over coating Interval		
	By self		By Tamaglass
	Min	Max	Min
-5°C	35 hours	-	36 hours
0°C	28 hours	-	36 hours
10°C	18 hours	-	24 hours
20°C	8 hours	-	12 hours
30°C	4 hours	-	8 hours

**SURFACE PREPARATION & APPLICATION:**

Freshwater wash to remove dirt and salt contamination, degreasing and rinsing. Blast cleaning to SA2, or hydro blast, or wire brushing, or power tool cleaning to ST3. Feather or chip back surrounding area to a sound edge.

Apply 2 coats of Epitamarin Solekote FD 125 microns (dry) each followed by one coat of 50 microns Tamaglass.

APPLICATION CONDITION:

Ensure area is clean and dry prior to application. For touch-up

Overlap onto existing coating by approximately 5cm. If applying on existing paint, a small trial is to be carried out before application. Do not apply when the surface to be coated is less than 3° C above the dew point. Stir well before application and while painting.

STORAGE AND PACKING:

The product should be kept in cool and dry condition.

Packing: 5, 20 Ltr Part "A" 843-825 (Mio Grey), Part "B" 843-830.

REMARKS:

The numerical information quoted in the data sheet is subject to normal manufacturing tolerance. Practical coverage can vary depending on application, structure and weather conditions.

Volume solids figures given is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

Intervals given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 3/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation. If product comes in contact with skin wash with warm water and soap. If eyes are contaminated flush with water for 10 minutes and obtain medical attention.

BASIC SAFETY PRECAUTIONS:

Keep away from sparks and open flames. No smoking should be permitted in the area. Observe precautionary notices on containers.

The information in this data sheet is given in good faith and to the best of our knowledge. It is subject to revision from time to time, in light of experience and our policy of continuous product development. Since condition of application and service may be beyond our control, no liability can be accepted on basis of this data.



POLYURITANE



**TAMAGLASS SUPER/B.T.D****POLYURITANE**

CODE: 843-503 White 843-506 Black 843-606 Red 606

DESCRIPTION:

A two component aliphatic recoatable polyurethane topcoat with excellent gloss and color retention, durability, chemical resistance & outstanding resistance to marine and industrial atmosphere. Non-chalking, no yellowing. Can be used on Topsides, Decks, Superstructures, and other areas above water line. Tamaglass is used as a cosmetic glossy/matt/semi-gloss decorative top coat on steel, aluminum, fiberglass and plywood. Excellent protection on buildings under different atmospheric conditions and in severely corrosive environment. Tamaglass can be coated even after long atmospheric exposure.

TECHNICAL DATA:**PHYSICAL DETAILS: AT 25°C & 65% RH**

Gloss	Gloss, Semi-gloss, Matt
Colours	white + Ral shades
Specific gravity-Kg/Lt	1.31
Volume Solids	52% gloss
Film Thickness – Dry	50 mic.
Wet	100 mic.
Theoretical coverage	10.4 sqm/lit.
Flash Point	32°C
Drying Time –Touch	2 hour
Hard	16 hours
Shelf Life	24 months
V.O.C.	447 g/liter

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	3:1	
Quantity of thinner	0-5%	5%
Recommended Nozzle Orifice	0.015” -0.018”	
Recommended Inlet Pressure	5-6 atm	
Cleaning Thinner	1-11	1-11
Recoating Interval	See remarks	
Potlife	8 hours	

DRYING TIME AT 50 MIC DFT

Air Temperature	Touch Dry	Over coating Interval Self	
		Min	Max
5°C	6 hours	24 hours	Indefinite
10°C	4 hours	18 hours	Indefinite
20°C	3 hours	12 hours	Indefinite
30°C	1 1/2 hours	8 hours	Indefinite

**SURFACE PREPARATION:**

New Building: Abrasive blasting to SA2.5 to a profile of 50-70 microns. Apply Zinc Rich Epoxy or EA9 or Epogal followed by 2 coats of Epitamarin Solekote. Surface must be clean, dry, and free of dirt, dust, wax, or any other contaminations. Repair: Abrasive blasting to SA2.5. Apply 2-3 coats of Epitamarin Solekote. If abrasive cleaning is impossible, remove loose rust to ST3 and apply 2-3 coats of Epitamarin. Solekote or Multipoxy. Renewing of decks painted with Tamaglass: It is recommended to clean the area with Thinner 1-11 (Prior to application).

APPLICATION CONDITION:

The surface should be dry and free of all contamination (oil, grease, salt, etc.). Do not apply when humidity is higher than 85% or if rain is expected within a few hours. Surface temperature must be at least 3°. Premature exposure to early condensation and rain may cause color and gloss change.

STORAGE AND PACKING:

Store in cool and dry condition. Part B (hardener) is sensitive to moisture. Containers must be kept tightly closed. Packing: 1 Lit (white only), 5.0 Lit, 20 Lit.

REMARKS:

Available in Ral shades, gloss, semi gloss or matt. Tamaglass is for professional use only. The numerical information quoted in the data sheet is subject to normal manufacturing tolerance. Practical coverage can vary depending on application, structure and weather conditions. Volume solids figures given is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions. Intervals given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 3/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation. If product comes in contact with skin wash with warm water and soap. If eyes are contaminated flush with water for 10 minutes and obtain medical attention.

BASIC SAFETY PRECAUTIONS:

Handle with care. Open cans with care. Keep away from sparks and open flames. No smoking should be permitted in the area. Observe precautionary notices on containers.

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SPECIAL EPOXY PRODUCTS





EPITAMARIN AQUAPOXY 15M TIE COAT

SPECIAL EPOXY PRODUCTS

CODE: 840-032

DESCRIPTION:

A two pack water dilutable epoxy paint to be used as a binding coat. Good adhesion to old paint coats of emulsion, synthetic, chlorinated rubber paints etc. Serves as a binding coat between old one-component paints to new, two-component, solvent based topcoats, such as Tamaglass, Autodur and Epoxy. It is mostly required to upgrade existing synthetic paint systems by painting them with epoxy and polyurethane paints. User and environment friendly.

Low V.O.C. Low odor. Non – flammable.

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Gloss	Over 70%
Colours	Light Cream
Specific gravity-Kg/Lt	1.25
Volume Solids	32%
Film Thickness – Dry	25 - 35 mic.
Wet	80 -110 mic.
Theoretical coverage	13-9 sqm/lit.
Flash Point	48°C
Drying Time –Touch	4 hour
Hard	24 hours
Shelf Life	24 months

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	5:1	
Quantity of thinner (max. vol)	5-7%	10 - 15%
Recommended Nozzle Orifice	0.017”- 0.021”	
Recommended Inlet Pressure	5 atm	
Cleaning Thinner	Water	Water
Recoating Interval	15-24 hours	
Potlife	4 hours	

SURFACE PREPARATION:

Surface properly clean of dust, dirt, oil, grease and any loose paint. Roughen glossy surfaces. No need to remove old paint that is well adhered to the substrate.

APPLICATION CONDITION:

Area should be clean and dry prior to application. Temperature should be above the dew point during application.

**STORAGE AND PACKING:**

Store in cool and well ventilated place. Container must be kept tightly closed.

Packing: 5.0 Ltr.

REMARKS:

This product will not cure adequately below 7°C.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The interval given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 3/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation. If product comes in contact with skin wash with warm water and soak. If eyes are contaminated flush with water for 10 minutes and obtain medical attention.

BASIC SAFETY PRECAUTIONS:

This product contains flammable materials. Keep away from sparks and open flames. No smoking should be permitted in the area. Observe all precautionary notices on containers. Additional safety information is available on request.

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**EPITAMARIN AQUAPOXY TOPCOAT 17 M****SPECIAL EPOXY PRODUCTS**

CODE: 840-009 Grey
840-012 White

DESCRIPTION:

A two pack water dilatable epoxy polyamide top-coat with outstanding protection in Marine and Industrial atmosphere. For interior and exterior use – new buildings, constructions etc... Excellent adhesion to old paint system. Tough and hard wearing. Low V.O.C. Low odor. Non – flammable. Environment friendly.

TECHNICAL DATA:**PHYSICAL DETAILS: AT 25°C & 65% RH**

Gloss	Over 70%
Colors	Grey
Specific gravity-Kg/Lt	1.20
Volume Solids	40%
Film Thickness – Dry	40 mic.
Wet	100 mic.
Theoretical coverage	10.00 sqm/lit.
Flash Point	48°C
Drying Time –Touch	4 hour
Hard	24 hours
Shelf Life	24 months

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	1:4	
Quantity of thinner (max. volume)	5-10%	10-15%
Recommended Nozzle Orifice	0.017"-0.021"	
Recommended Inlet Pressure	5 atm	
Cleaning Thinner	Water	Water
Recoating Interval	15-24 hours	
Potlife	4 hours	

SURFACE PREPARATION:

Surface properly clean of dust, dirt, oil, grease and any loose paint.
To be applied over Epitamarin Aquapoxy 15M.

APPLICATION CONDITION:

Area should be clean and dry prior to application. Temperature should be above the dew point during application.

**STORAGE AND PACKING:**

Store in cool and well ventilated place. Container must be kept tightly closed.

Packing: 5.0 Ltr.

REMARKS:

This product will not cure adequately below 7°C.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The interval given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 3/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation. If product comes in contact with skin wash with warm water and soak. If eyes are contaminated flush with water for 10 minutes and obtain medical attention.

BASIC SAFETY PRECAUTIONS:

This product contains flammable materials. Keep away from sparks and open flames. No smoking should be permitted in the area. Observe all precautionary notices on containers. Additional safety information is available on request.

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EPITAMARIN SOLEKOTE ALUMINUM

SPECIAL EPOXY PRODUCTS

CODE: 843-463 Aluminum

DESCRIPTION:

A two component, surface tolerant, high solid coating based on special epoxy resins and aluminum flakes. High hardness, grants excellent anticorrosive protection and chemical resistant, on mechanically prepared or hydroblasted surface. Can be used as a part of a system on submerged areas, as well as a primer, intermediate and topcoat on topsides, cargo holds, exposed decks, hatch covers, ballast tanks and other steel structures in marine & industrial environments.

Epitamarin Solekote Red & Grey are approved for use in grain carriers.

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Gloss	Semi – gloss
Colors	Aluminum & shades
Specific gravity-Kg/Lt	1.48
Volume Solids	74 %
Film Thickness – Dry	250 mic. in two coats
Wet	340 mic.
Theoretical coverage	3.75 sqm/lit.
Flash Point	25°C
Drying Time	Touch 6 hours, Hard – 24 hours
Shelf Life	24 months
V.O.C.	233 g/liter

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	1:1	
Quantity of thinner	7%	15%
Recommended Nozzle Orifice	0.023	
Recommended Inlet Pressure	6 atm	
Cleaning Thinner	4-100	4-100
Re coating Interval	See remarks	
Potlife	8 hours	

DRYING TIME AT 100 MIC DFT

Air Temperature	Touch Dry	Over coating Interval		
		Self		By Tamaglass
		Min	Max	Min
0°C*	8 hours	36 hours	-	36 hours
5°C*	6 hours	28 hours	-	28 hours
10°C	12 hours	24 hours	-	24 hours
20°C	6 hours	24 hours	-	24 hours
30°C	4 hours	20 hours	-	20 hours



SURFACE PREPARATION:

Repair & maintenance: Remove oil and grease with degreaser. Remove salts and other contamination by high pressure fresh water. Damaged area should be cleaned by power tools to ST3, or blasting to SA2 to achieve profile of 50 microns, or hydro blasting, or wire brushing. Coating performance is proportional to the degree of surface preparations. Feather or chip back surrounding area to a sound edge. For best results apply two coats of 125 microns thick, followed by one coat of 50 micron "Tamaglass". For underwater area apply 2 coats of 125 microns each, followed by 50 microns Epitamarin Divinex NB & antifouling as per specification.

New steel: Can be applied over any Tamarin's epoxy primer or shop primer, as a primer, intermediate/topcoat, after preparations as above. If applied as a primer, area should be blasted to SA 2.5 standard with profile of 50-70 microns.

APPLICATION CONDITION:

Ensure area is clean and dry prior to application. For touch-up overlap onto existing coating by approximately 5cm. If applying on existing paint, a small trial should be carried out before application. Do not apply when humidity is higher than 85%.

Substrate temperature should be 3°C above the dew point during application and curing.

Adequate ventilation should be maintained during application and curing.

STORAGE AND PACKING:

The product should be kept in cool and dry condition. Packing: 5 Ltr (Part A in 5 Ltr containers, Part B in 2.5 Ltr), 20 Ltr (Part A in 20 Ltr containers, Part B in 10 Ltr.).

REMARKS:

2 coats of 125 microns each are recommended. Epitamarin Solekote can be recoated by other epoxy or polyurethane topcoats. * For temperature below 10°C* use the winter version hardener code 843-466. Instead of code 843-465. Other ready made shades of Epitamarin Solekote: 843-447 Cream white 9001, 843-448 Black, 843-458 Grey 7023, 843-473 Red. Epitamarin Solekote is available in Ral shades.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerance. Practical coverage can vary depending on application, structure and weather conditions. Volume solids figures given is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

Intervals given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 3/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation. If product comes in contact with skin wash with warm water and soap. If eyes are contaminated flush with water for 10 minutes and obtain medical attention.

BASIC SAFETY PRECAUTIONS:

Keep away from sparks and open flames. No smoking should be permitted in the area. Observe precautionary notices on containers.

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**EPITAMARIN SOLEKOTE RED/GREY/BLACK****SPECIAL EPOXY PRODUCTS**

CODE: 843-473 Red/ 843-458 Grey 843-448 Black/843-447 Ral 9001

DESCRIPTION:

A two component, surface tolerant, high solids coating based on special epoxy resins. Grants anticorrosive protection on mechanically prepared or hydroblasted surfaces. Can be used as a part of a system on submerged areas, as well as a primer and topcoat on topsides, cargo holds, exposed decks, hatch covers and other steel structures, in severe weathering conditions. Good abrasion resistance. Epitamarin Solekote, is approved for use in grain carriers.

TECHNICAL DATA:**PHYSICAL DETAILS: AT 25°C & 65% RH**

Gloss	Semi – gloss
Colors	Red* + Ral shades
Specific gravity-Kg/Lt	1.48
Volume Solids	74%
Film Thickness – Dry	250 mic.
Wet	340 mic.
Theoretical coverage	3.75 sqm/lit.
Flash Point	25°C
Drying Time –Touch	6 hours
Hard	24 hours
Shelf Life	12 months
V.O.C.	233 g/litre

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	1:1	
Quantity of thinner	7%	15%
Recommended Nozzle Orifice	0.023	
Recommended Inlet Pressure	6 atm	
Cleaning Thinner	4-100	4-100
Recoating Interval	see remarks	
Potlife	8 hours	

DRYING TIME AT 100 MIC DFT

Air Temperature	Touch Dry	Over coating Interval		
		Self		By Tamaglass
		Min	Max	Min
0°C*	8 hours	28 hours	-	24 hours
5°C*	6 hours	24hours	-	48 hours
10°C	12 hours	36 hours	-	28 hours
20°C	6 hours	24 hours	-	24 hours
30°C	4 hours	14 hours	-	24 hours

*winter grade



SURFACE PREPARATION:

Repair & maintenance: Remove oil and grease with degreaser. Remove salt and other contamination by high pressure fresh water. Damaged area should be cleaned by power tools to ST3, or blasting to SA2, or hydro blasting, or wire brushing. Better surface preparation will improve the performance. Feather or chip back surrounding area to a sound edge. Apply at least two coats of 125 microns each, followed by one coat of Tamaglass.

New steel: Can be applied over any Tamarin's epoxy primer or shop primer, as an intermediate/topcoat, after preparations as above. If applied as a primer, area should be blasted to a minimum of SA 2.5 standard with profile of 50-70 microns.

APPLICATION CONDITION:

Ensure the area is clean and dry prior to application. For touch-up overlap onto existing coating by approximately 5cm. If applying on existing paint, a small trial is to be carried out before application. Do not apply when humidity is higher than 85%. Temperature should be above the dew point during application.

STORAGE AND PACKING:

The product should be kept in cool and dry condition.

Packing: 20 Ltr (Part A in 20 Ltr container, Part B in 10 Ltr.)

REMARKS:

2 coats of 125 microns each are recommended. Epitamarin Solekote can be over coated by other epoxy or polyurethane topcoats. For temperature below 10°C: use the WINTER VERSION hardener code 843-466 instead of code 843-465.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerance. Practical coverage can vary depending on application, structure and weather conditions.

Volume solids figures given is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

Intervals given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 3/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation. If product comes in contact with skin wash with warm water and soap. If eyes are contaminated flush with water for 10 minutes and obtain medical attention.

BASIC SAFETY PRECAUTIONS:

Keep away from sparks and open flames. No smoking should be permitted in the area. Observe precautionary notices on containers.

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**EPITAMARIN AFRAPOXY SF****SPECIAL EPOXY PRODUCTS**

CODE: 843-480 RAL 9002 843-483 RAL 7023

DESCRIPTION:

A two component solvent and tar free epoxy coating, specially designed for protection of ballast tanks, holds, cofferdams and other wet or dry spaces. Can be applied in thick coats – reduced application costs. Light colors for safety in confined spaces. Low V.O.C.

TECHNICAL DATA:**PHYSICAL DETAILS: AT 25°C & 65% RH**

Gloss	Semi-gloss
Colors	Light grey
Specific gravity-Kg/Lt	1.43
Volume Solids	95%
Film Thickness – Dry	250 - 350 mic.
Wet	260 - 370 mic.
Theoretical coverage	3.80 – 2.70 sqm/lit.
Flash Point	50°C
Drying Time –Touch	6 hours
Hard	24 hours
Shelf Life	24 months
V.O.C.	25 g/liter

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	6.3:1	
Quantity of thinner (max. vol)	N/A	N/A
Recommended Nozzle Orifice	0.021-0.036	
Recommended Inlet Pressure	6 atm	
Cleaning Thinner*	4-100	4-100
Recoating Interval	See remarks	
Potlife	1 hours	

DRYING TIME AT 200 MIC DFT

Air Temperature	Touch Dry	Over coating Interval	
		Min	Max
5°C	16 hours	36 hours	72
10°C	12 hours	28 hours	72
20°C	6 hours	24 hours	72
25°C	6 hours	24 hours	48

SURFACE PREPARATION:

New Steel – Remove oil, grease and any other contamination. Epitamarin Afrapoxy SF can be applied over blasted area to Sa 2.5 (to a minimum profile of 70 microns depth), or shop



primer (Zinc based) in good condition. Area should be clean and dry prior to application. It is recommended to use heavy duty vacuum cleaner to remove dust residues.

Maintenance – Area to be cleaned from oil, grease, salt or any other contamination.

Remove rust or loose material by blasting or mechanical power cleaning. Feather edges to sound and intact areas. Clean dust before application. Corners, edges, welds and other difficult areas should be stripe coated before airless spray application. Apply two coats of Epitamarin Afrapoxy SF in total dry film thickness of 250 -350 microns.

Maximum Recoating interval between coats is 72 hours. In case of exceeding maximum recoating interval, roughening of the surface is necessary to guarantee inter coat adhesion.

APPLICATION CONDITION:

Afrapoxy SF is to be used at temp. above 5°C. At temp of 50°C, Paint must be heated to 250 – 300°C. During application temperature should be above the dew point. Humidity – max 85%. Airless: It is recommended to use airless pump of 60:1.

Ventilation: Adequate ventilation must be maintained during application and curing.

Minimum curing time: Minimum curing time of Afrapoxy SF system before filling water is 7 days after completion of application.

STORAGE AND PACKING:

Store in cool and well ventilated place. Containers must be kept Tightly closed.

Packing: 5 ltr – Part A in 5 Ltr, Part B in 1 Ltr. 20 Ltr: Part A in 20Ltr, Part B in 3 Ltr.

REMARKS:

250- 350 mic. Can be applied in one coat (solves solvent retention phenomena, labor etc.).

* Epitamarin Afrapoxy SF is a solvent free product – do not dilute.

Stripe coats: Special care should be taken on application of edges, weld seams, profiles, corners and other areas difficult to be reached by airless spraying. Above areas should be stripe coated two times at least to achieve the required film thickness. The numerical information quoted in the data sheet is subject to normal manufacturing tolerance.

Practical coverage can vary depending on application, structure and weather conditions. Volume solids figures given is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

Intervals given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 1/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation. If product comes in contact with skin wash with warm water and soap. If eyes are contaminated flush with water for 10 minutes and obtain medical attention.

BASIC SAFETY PRECAUTIONS:

Keep away from sparks and open flames. No smoking should be permitted in the area. Observe precautionary notices on containers.

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TAMAGUARD EN 100

SPECIAL EPOXY PRODUCTS

CODE: Part A 579-004
Part B 579-005

DESCRIPTION:

Two components, Solvent Free, Primer & Topcoat, Epoxy Novolak. Superior resistance to chemicals, acids and alkaline. Suitable for application in highly corrosive industrial environment and in contact with chemicals according to resistance table. Used for application in interior of storages containers of crude oil, hydrocarbon materials, thinners, sea water, process water, sewage, hot water (80°C). Resistant to high temperatures, etc. (continuous process at 120°C and brief peaks up to 150°C). Good flexibility and excellent abrasion resistance.

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Gloss	Gloss *
Colors	White/Grey **
Volume Solids	100 %
Film Thickness – Dry	200 mic.
Wet	200 mic.
Recommended system (d.f.t)	2 coat of 200 mic. each
Theoretical coverage	10 sqm/lit.
Flash Point	25°C
Drying Time	Touch 2 hours, Hard – 8 hours
Shelf Life	24 months

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	3:1	
Quantity of thinner	n/a	5%
Recommended Nozzle Orifice	0.023	
Recommended Inlet Pressure	6 atm	
Cleaning Thinner	4-100	4-100
Potlife	2 hours	

* loss of gloss and yellowing when exposed to sun & chemicals

** Additional colors upon request.

SURFACE PREPARATION:

Steel – Remove grease & oil by degreasing and high pressure of fresh water. Remove dust & any other foreign matter. Ensure smoothing of welded parts and sharp edges. Blast area to SA2.5 (Swedish Standard), to achieve profile of 60-70 microns at least. Apply paint before rust forms on it.

CONCRETE:

Remove dust & dirt. Remove grease using detergents, and rinse with tap water, until a



neutral surface is obtained. Ascertain the surface is rough – depth of 200 microns at least, until original, stable concrete surface is obtained. Cure fresh concrete for 28 days at least. Rinse concrete for removal of soluble salts. Roughen the surface using shot or sand blast. Rinse with fresh water, thus ensuring surface is clean of dust and environment of Ph 6-10. allow drying for 48 hours. Concrete which isn't porous enough should be coated with suitable epoxy concrete primer.

APPLICATION METHOD:

	Pressure (atm.)	Nozzle orifice	Thinner	Thinner volume (%)
Brush/Roller			4-100	5-10
Regular spray	3-4		4-100	10-15
Airless (1:60)	4-5	0.017-0.025"	4-100	0-5

REMARKS:

Stir well before and during application.

Application temperature – minimum 10°C, Maximum 40°C.

Apply only at temperature which is 5°C higher than the dew point.

On galvanized steel apply on appropriate primer only.

CAUTION:

Any work includes application and use of this product, shall be performed according to application safety, health and environment regulations. Read the safety precautions and the warnings specified in the safety Data Sheet, available in the Tambour Safety Department and indicated on the product's label. Keep away from fire and sparks.

Inedible. Provide adequate ventilation on the work space. Use appropriate means, as indicate in the safety data sheet. Do not inhale fumes when spraying this product.

Never mix this material with others, when not specifically recommended by us.

GENERAL COMMENTS:

Data presented above is based on our best knowledge and experience. We reserve the right to update or alter without prior notice. Achieving the optimal results is subject to proper application, strictly complying with our application and safety instructions. User must ensure, prior to application, that the recommended product is indeed designated for his requirements, and that surface and infrastructure are properly prepared and fit for application.

For further information, please contact our Technical Service Department.



SHOPPRIMERS WELDING PRIMERS



**EPITAMARIN UNISEAL “G”****SHOPPRIMERS WELDING PRIMERS**

CODE: 842-007

DESCRIPTION:

A two component epoxy recoat able high quality anticorrosive and weldable primer. Based on a blend of special binders. Fast drying (5 minutes!). For use on ferrous metals for automatic shot blasting machines.

TECHNICAL DATA:**PHYSICAL DETAILS: AT 25°C & 65% RH**

Gloss	Flat
Colors	Red Brown
Specific gravity-Kg/Lt	1.11
Volume Solids	28%
Film Thickness – Dry	20 mic.
Wet	75 mic.
Theoretical coverage	12.50 sqm/lit.
Flash Point	17°C
Drying Time –Touch	5 min.
Hard	24 hours
Shelf Life	24 months
V.O.C.	615 g/liter

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Weight	10:1	
Quantity of thinner (max. vol)	0-20% (4-100)	0-30% (4-100) *
Recommended Nozzle Orifice	0.021”	
Recommended Inlet Pressure	5 atm	
Cleaning Thinner	4-100	4-100
Recoating Interval	6 hours	
Potlife	12 hours	

SURFACE PREPARATION:

As a holding primer: Remove oil and grease etc., with EcoClean 2230 or other suitable detergent. Remove salts and other contaminations by high pressure fresh water jet. Blast area to Sa 2.5, SSPC-SP-10. Remove dust. Apply immediately after cleaning (before oxidation occurs). Area should be clean and dry prior to application.

Recoating: Prior to recoating, all damaged shop primer and contamination from storage and fabrication, should be removed. Remove weld spatter and smooth weld seams and sharp edges.

**APPLICATION CONDITION:**

Area should be clean and dry prior to application.

Temperature should be above the dew point during application, avoiding condensation.

The temperature of the surface and the paint must be above 7°C.

Maximum steel temperature 45°C.

Do not exceed 20-25 mic DFT (on smooth steel). Epitamarin Uniseal “G” should be applied in a uniform thickness. Air spray to be used by a low pressure, under constant circulation.

As a sealer coat: dilute up to 10% with Thinner 4-100. If applied over zinc silicate, make sure that the zinc silicate is fully cured before application Epitamarin Uniseal “G”.

STORAGE AND PACKING:

Store in cool and well ventilated place. Container must be kept tightly closed.

Packaging size: 20 Ltr.

REMARKS:

This product will not cure adequately below 10°C.

Before recoating Epitamarin Uniseal “G”, after exposure in contaminated environment, area should be cleaned by high pressure fresh water. Area should be dry before application.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The interval given assumes preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 3/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation if product comes in contact with skin wash with warm water and soak. If eyes are contaminated flush with water for 10 minutes and obtain medical attention.

BASIC SAFETY PRECAUTIONS:

This product contains flammable materials. Keep away from sparks and open flames. No smoking should be permitted in the area. Observe all precautionary notices on containers. Additional safety information is available on request.

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INORGANIC ZINC SILICATE SHOP PRIMER

SHOPPRIMERS WELDING PRIMERS

CODE: 877-030

DESCRIPTION:

An inorganic ethyl zinc silicate coating, heavy duty rust preventing primer, which provides excellent resistance to weathering, abrasion and impact. Long term corrosion protection in severe weathering, Marine and Industrial environments. Has excellent chemical resistance. Offers cathodic protection. Suitable as a weldable preconstruction primer in 20 microns D.F.T. No mud cracking and topcoat bubbling. Low VOC. Conforms to MIL – SPEC – P - 38336 for steel surfaces. For use in Marine on decks, hulls and superstructures of ships, barges and work boats, piers, offshore platforms, cranes and related structures. In industrial: For structural steel, power plants, oil refineries, machinery pipes, chemical process, waste treatment plants etc.

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Gloss	Flat
Color	Grey
Specific gravity-Kg/Lt	2.22
Volume Solids	56%
Film Thickness – Dry	20 mic.
Wet	36 mic.
Theoretical coverage	28 sqm/lit.
Flash Point	16°C
Drying Time –Touch	10 min.
Hard	24 hours
Shelf Life	12 months
V.O.C.	376 g/liter

APPLICATION DETAILS:

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	100:166	
Quantity of thinner (max. volume)	50%	5%
Recommended Nozzle Orifice	0.021"	
Recommended Inlet Pressure	5 atm	
Cleaning Thinner	280	280
Recoating Interval	24 hrs	
Potlife	8 hours	

DRYING TIME AT 20 MIC DFT (SEE REMARKS)

Dry to handle in 10 minutes at 25°C and sufficient ventilation in 20 microns dry film thickness. Plates can be transported as soon as dry to handle. Processing is only recommended when fully cured. Curing time: Depending on temperature and humidity. Relative humidity: min. 50%, preferably above 65%. Min. temperature for curing is 0°C.

At 25°C / 75% relative humidity the coating will be fully cured in 4 days. Complete curing can be checked by rubbing the coating with a rag soaked in Thinner 280. If the coating remains unaffected, the curing is complete.



SURFACE PREPARATION:

Remove oil, grease etc. with suitable detergent. Remove salt dirt and other contamination by high pressure fresh water. Make sure welds are free of pin holes and spatters. Sharp edges must be removed. Abrasive blasting to minimum Sa 2.5. The ideal profile is 35-60 mic. And should be angular.

APPLICATION CONDITION:

Area should be clean and dry prior to application (best cleaning can be achieved by vacuum cleaner). Temperature should be a few degrees above the dew point during application. Curing needs minimum steel temperature of 0°C - max 55°C above 65% relative humidity. Supplied as zinc powder part B, and binder part A. Stir part A, in a mechanical mixer and gradually pour zinc powder (Part B) into liquid component stirring continuously. Continue stirring until a completely homogeneous and smooth mixture is obtained. Sieve mixed material through 30-60 mesh filter. Thin, as needed, using only Thinner 280. Tamarin Inorganic Zinc Silicate can be applied by standard airless spray equipment. Apply Tamarin inorganic zinc silicate as soon as possible to avoid rusting or other contamination. The paint should be applied in a uniform film thickness. Areas difficult to cover properly by spray application must be stripe coated with a brush before spray application. When paint is dry, check film thickness. The drying mechanism is based on chemical reaction with water vapors in the air. It is not recommended to apply this paint in relative humidity below 50% and at environmental temperature over 40°C. When application must be performed at relative humidity below 50%, spray a water mist over the coating when the film is dry to touch (about 4 hours).

STORAGE AND PACKING:

Store in cool and well ventilated place. Container must be kept tightly closed.

REMARKS:

Tamarin Inorganic Zinc Silicate Shop Primer, is for professional only. Recoating intervals are depended on temperature and humidity. Open packings immediately before use. Mix only in proportions supplied. The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions. The intervals given assume preparation consistent with good painting practice.

Recoating: Paint must be fully cured before recoating. Remove oil and grease, dirt, etc. with suitable detergent followed by fresh water rinsing. Remove weld spatters. Damaged areas, burns, etc. must be cleaned by abrasive blasting according to specification and touch up with primer of the coating system. After long exposure, light sweeping is necessary to remove accumulated zinc salts. Clean rusty spots to the original standard and touch up with first primer of the coating system proper.

SAFETY PRECAUTIONS:

Refer to P.P.A. 1/4. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation if product comes in contact with skin wash with warm water and soak. If eyes are contaminated flush with water for 10 minutes and obtain medical attention. This product contains flammable materials. Keep away from sparks and open flames. No smoking should be permitted in the area. Additional safety information is available on request.

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TAMAWELD

SHOPPRIMERS WELDING PRIMERS

CODE: 877-050 Red 877-054 Green

DESCRIPTION:

TAMAWELD is a two components, low zinc content, solvent-borne ethyl silicate shop primer, specially designed for automatic or manual spray application. Fast drying properties. Suited where welding and gas cutting properties are of importance. Tamaweld is suitable for short to medium term protection of blast cleaned steel plates and other structural steel during storage, fabrication and construction periods. Low fume release during welding & cutting.

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Gloss	Flat
Color	Red & Green
Specific gravity-Kg/Lt	1.42
Volume Solids	28%
Film Thickness – Dry	20 - 25 mic.
Wet	80 mic.
Theoretical coverage	14 sqm/lit.
Flash Point	21°C
Drying Time –Touch	10 min.
Hard	24 hours
Shelf Life	6 months
V.O.C.	610g/litre

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Mixing Ratio by Volume	166 A : 100 B	
Quantity of thinner (max. vol.)	30 %	15 %
Recommended Nozzle Orifice	0.017"-0.021"	
Recommended Inlet Pressure	5 atm.	
Thinner	280	280
Recoating Interval	24 hrs min.	
Potlife	8 hours	

DRYING TIME AT 20 MIC DFT (SEE REMARKS)

Dry to handle in 10 minutes at 25°C and sufficient ventilation in 25 microns dry film thickness. Plates can be transported or as soon as dry to handle. Processing is only recommended when fully cured.

Curing time: Depending on temperature and humidity. Relative humidity: min. 50%, preferably above 65%. Min. temperature for curing is 0°C.

At 25°C / 75% relative humidity the coating will be fully cured in 3 days.

SURFACE PREPARATION:

Remove oil, grease etc. with suitable detergent followed by high pressure fresh water hosing.

Remove salt dirt and other contamination by high pressure fresh water.

Abrasive blasting to Sa 2.5. The ideal profile is 50-75 micron.

**APPLICATION CONDITION:**

Area should be clean and dry prior to application. Temperature should be a few degrees above the dew point during application. Minimum Steel temperature - 0°C, maximum - 55°C. Relative humidity: above 65%. The temperature of mixture of binder and paste should be above 15° C.

INSTRUCTIONS FOR USE:

Supplied as binder part A and paste part B. Stir the paste thoroughly before adding the binder. Add 30% of the binder to the paste. Stir thoroughly till homogeneous. Add remaining binder and continue stirring until the mixture is homogeneous. Strain the mixed paint through a 30-60 mesh screen. Mixed paint is now ready for use. Thinner 280 might be added - only after paint (part A & part B) are already mixed.

For use in automatic shop priming plants, adjust the mixture to a viscosity of 15-18/DIN 4. Tamaweld can be applied by conventional spray equipment (pressure pot type), airless spray equipment and brush. For airless spray application, add maximum 30% of thinner. For brush – 15%. Apply the Tamaweld as soon as possible to avoid rusting or other contamination. Paint should be mixed during application.

STORAGE AND PACKING:

Store in cool and well ventilated place. Container must be kept tightly closed.

REMARKS:

Tamaweld is for professional only. Recoating intervals are depended on temperature and humidity. Open packing immediately before use. Mix only in proportions supplied.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions. The interval given assume preparation consistent with good painting practice.

RECOATING:

Paint must be fully cured before recoating. Remove oil, grease, dirt, etc. with suitable detergent followed by fresh water rinsing. Remove weld spatters. Damaged areas, burns, etc. must be cleaned by abrasive blasting according to specification and touch up with primer of the coating system. After long exposure, light sweeping may be necessary to remove accumulated zinc salts. Clean rusty spots to the original standard and touch up with first primer of the coating system proper.

SAFETY PRECAUTIONS:

Refer to P.P.A. 1/4. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes. (Gloves, goggles, face mask, barrier cream, etc.) Provide adequate ventilation If product comes in contact with skin wash with warm water and soak. If eyes are contaminated flush with water for 10 minutes and obtain medical attention.

Basic Safety Precautions: This product contains flammable materials. Keep away from sparks and open flames. No smoking should be permitted in the area. Observe all precautionary notices on containers. Additional safety information is available on request

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MISCELLANEOUS





SILICONE ALUMINIUM 540

MISCELLANEOUS

CODE: 602-020

DESCRIPTION:

Heat resistant finish paint for maintenance and new steel construction resistant to heat up to 540°C, based on silicone resin and aluminum pigment. This paint is recommended for exhausts, furnaces, boilers, funnels and metal parts which are heated to 540°C.

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Gloss	Silk
Color	Aluminum
Specific gravity-Kg/Lt	1.22
Volume Solids	30%
Film Thickness – Dry	25 mic
Wet	90 mic
Theoretical coverage	12 sqm/lit.
Flash Point	25°C
Drying Time –Touch	6 hour
Hard	24 hrs
Shelf Life	12 months
V.O.C.	466 g/liter

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Quantity of thinner	0-5%	5-10%
Recommended Nozzle Orifice	0.13"-0.015"	
Recommended Inlet Pressure	5 atm	
Cleaning Thinner	1-32	1-32
Recoating Interval	Min 24 hrs (20°C)	
Pot life	N/A	

SURFACE PREPARATION:

New steel – Abrasive blasting to minimum SA 2.5 (if blasting is impossible prepare area to ST 3 by wire brush). Apply 2 coats of 20 microns each. If anticorrosive protection is needed a zinc silicate primer must be applied to a 50 mic. D.F.T.

Maintenance – Remove oil and grease with a suitable degreaser. Remove salt and other contamination by high pressure – fresh water. Remove rust and loose paint by abrasive blasting or power tool cleaning. Dust off residues, and touch up to full film thickness.

APPLICATION CONDITION:

The surface must be clean and dry at time of application. Do not apply when relative humidity exceeds 90% or when the surface to be coated is less than 3°C above the dew point.

**STORAGE AND PACKING:**

Store in cool and dry condition.

Packaging Size: 5 Liters.

REMARKS:

Stir well before use. Full film properties developed after heating to 200°C.

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The intervals given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 2/1. Handle with care. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes (gloves, goggles, face mask barrier cream, etc.). Avoid inhalation of possible solvent vapors or paint mist. Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. In case of contamination, rinse with fresh running water and seek medical help at once. Since this product contains flammable materials, keep away from sparks and open flames.

Basic Safety Precautions:

No smoking should be permitted in the area. Observe all precautionary

Notices on containers. Additional safety information is available on request.

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TAMARIN SUPER BOAT VARNISH

MISCELLANEOUS

CODE: 803-002

DESCRIPTION:

A high quality weather and UV resistant polyurethane varnish, specially designed for protection of interior and exterior woodwork.

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Gloss	High Gloss
Color	Clear
Specific gravity-Kg/Lt	0.90
Volume Solids	40%
Film Thickness – Dry	30 mic
Wet	100 mic
Theoretical coverage	13.30 sqm/lit.
Flash Point	39°C
Drying Time –Touch	2 hour
Hard	24 hrs
Shelf Life	24 months
V.O.C.	530 g/liter

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Quantity of thinner		5-10%
Recommended Nozzle Orifice		
Recommended Inlet Pressure		
Cleaning Thinner		01-1
Recoating Interval	Min 24 hrs (20°C)	
Pot life	N/A	

SURFACE PREPARATION & APPLICATION:

Wood must be completely dry, and properly sanded.

Apply one diluted coat, followed by sand papering, then apply another 3 coats.

APPLICATION CONDITION:

The surface must be clean and dry at time of application. Do not apply when relative humidity exceeds 90% or when the surface to be coated is less than 3° C above the dew point. The temperature of the paint should be above 15°C, otherwise extra thinner may be required to obtain viscosity.

STORAGE AND PACKING:

Store in cool and dry condition.

Packaging Size: 5 Liters.

**REMARKS:**

Stir well before use. The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.

The intervals given assume preparation consistent with good painting practice.

SAFETY PRECAUTIONS:

Refer to P.P.A. 2/1. Handle with care. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes (gloves, goggles, face mask barrier cream, etc.). Avoid inhalation of possible solvent vapors or paint mist. Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. In case of contamination, rinse with fresh running water and seek medical help at once. Since this product contains flammable materials, keep away from sparks and open flames.

Basic Safety Precautions:

No smoking should be permitted in the area. Observe all precautionary Notices on containers. Additional safety information is available on request.

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TAMARIN R.C.T (RUST CONVERTER)

MISCELLANEOUS

CODE: 808-050

DESCRIPTION:

Tamarin R.C.T is a water reducible chelating polymer designed for field application onto rusted steel which has been hand or power cleaned or blasted.

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Color	Cream, satin
Specific gravity - Kg/lit	1.21
Volume Solids	36 %
Film Thickness – Dry	20 mic.
Wet	60 mic.
Theoretical coverage	18 m ² /lit.
Drying Time – Touch	1 hour
Hard	3 hours
Shelf Life	12 months

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Quantity of thinner		
Recommended Nozzle Orifice	0.021"	
Recommended Inlet Pressure	4 atm	
Cleaning Thinner	Water	Water
Re coating Interval	6 hours	

RECOMMENDED SURFACE PREPARATION:

Remove oil and grease with commercial detergent. Rinse with water to remove detergent residue. Remove loose rust and mild scale by metallic brush, abrasive disc or paper. Treatment can be carried out on wet surfaces.

REMARKS:

Tamarin R.C.T reacts quickly with rust and transforms iron oxides into a stable and insoluble blue-black metal-organic complex which is ready for painting after reaction. R.C.T is not for use on submerged area.

SAFETY PRECAUTIONS:

Handle with care. Consult Tamarin Material Safety Data Sheet. Avoid direct contact with skin and eyes (gloves, goggles, face mask barrier cream, etc.). Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. In case of contamination, rinse with fresh running water and seek medical help at once. Since this product contains flammable



materials, keep away from sparks and open flames.

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TAMARIN BALLAST COAT

MISCELLANEOUS

CODE: 808-081

DESCRIPTION:

A high build, flexible odorless water resistant one component coating, with aluminum flakes. It is for anticorrosive protection for exterior and interior steelwork not exposed to direct sunlight. For protection of ballast tanks, void spaces, steelwork behind linings, container chassis etc. Based on modified bitumen.

TECHNICAL DATA:

PHYSICAL DETAILS: AT 25°C & 65% RH

Gloss	Flat
Colors	Aluminum
Specific gravity - Kg/Liter	1.06
Volume Solids	53%
Film Thickness – Dry	350 mic.
Theoretical coverage	1.50 m2/lit.
Flash Point	39°C
Drying Time – Touch	6 hour
Hard	N/a
Shelf Life	24 months
V.O.C.	381g/liter

APPLICATION DETAILS

Application Method	Airless Spray	Brush/Roller
Quantity of thinner (max. volume)	01-1 (5%)	01-1 (5%)
Recommended Nozzle Orifice	0.036"	
Recommended Inlet Pressure	4-5 atm	
Cleaning Thinner	01-1	01-1

SURFACE PREPARATION:

New steel – Abrasive blasting to minimum SA2, alternatively mechanical cleaning to St 3.

Maintenance – Remove oil, grease, salt and any other foreign matter prior to application. Salt and other contamination should be removed by high pressure fresh water. Rust and loose paint should be removed by power tool cleaning. Area should be clean and dry prior to application.

REMARKS:

Adequate ventilation is necessary during application and for at least 3 days after completion to ensure evaporating of solvents (in ballast tanks).

The numerical information quoted in the data sheet is subject to normal manufacturing tolerances. Practical covering can vary depending on application conditions, structure and weather conditions. The volume solids figure is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions.



The intervals given assume preparation consistent with good painting practice.

STORAGE & PACKING:

The product should be kept in a cool and well ventilated place. Containers must be kept tightly closed.

SAFETY PRECAUTIONS:

Refer to P.P.A. 1/1. Before and during use observe all safety labels on packaging and paint containers. Consult Tamarin Material Safety Data Sheet. Avoid contact with skin and eyes (Gloves, goggles, face mask, barrier creams, etc.). Provide adequate ventilation. If the product comes in contact with the skin, wash with water and soap. If eyes are contaminated flush with water and obtain medical advice.

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CHEMICALS





CARBON REMOVER 3310

CHEMICALS

Code: 809-031

DESCRIPTION:

Carbon remover 3310 is a blend of solvents, formulated to remove carbon, paint, engine varnish, tar, ethyl stains, Sticky gums and petroleum residues from engine blocks. Carbon Remover 3310 is also effective for cleaning transmission parts, fuel pumps, fuel injectors, valves and tooling.

INSTRUCTIONS FOR USE:

Remove rubber trim before any treatment. The parts to be cleaned must be totally immersed in the lower layer of Carbon Remover 3310 and should be positioned in baskets so that minimum dragout occurs.

Paints and lacquers are usually softened in about 20-30 minutes. Sludge of carbon/burnt oil will require a soak of about 1-3 hours and hard carbon may necessitate an overnight soak to effect removal. The actual time depends on the thickness and composition of the deposits. It is not necessary to leave components in the bath until the contamination is completely removed as indicated by visual examination. The carbon of paint can be removed after softening has taken place by high pressure water rinsing. Wipe the clean parts with a dry cloth or by dry air pressure.

Parts that are to be stored should be protected with a rust inhibitor.

The bath should be operated at ambient temperatures, it should be heated or sited adjacent to other hot processes.

Carbon Remover 3310 is ready for use, no mixing or dilution required.

The bath must be covered with a lid if any Carbon Remover 3310 is left in the bath.

EFFECTS ON MATERIALS OF CONSTRUCTION:

Carbon Remover 3310 has no corrosive effects on steel, copper, magnesium, aluminum, cadmium, nickel or chromium. It will also no affect chemical conversion coatings, such as anodizing, phosphating, chromating and black oxidizing treatments. It should be remembered however that composite assemblies of dissimilar metals always have a possibility of creating galvanic corrosion. Most rubbers and plastics be degraded. Mild still or stainless steel tanks are suitable for operating baths.

PRECAUTION:

Avoid contact with skin, eyes and clothing. Avoid breathing vapor (contains chlorinated solvent). Use under conditions of adequate ventilation. Open container with caution. No smoking. Keep away from open flames. In case of skin contact or spillage drench with water. In case of eye contact wash immediately with water and obtain medical advice. Wear protective clothing including gloves and eye shields. More details on health and safety information are available on request.

STORAGE

Keep away from heat. Protect from freezing.



SPECIFIC TECHNICAL INFORMATION

Density: 1.17 g/ml at 20°C.
Appearance: Dark brown low viscosity liquid
Flash Point: non-flammable
Packing size: 25 kg



ECOCLEAN 2230

CHEMICALS

Multipurpose Transport Cleaner and General Degreaser

DESCRIPTION

Ecoclean 2230 is a liquid mixture of solvents, and corrosion inhibitors, does not contain caustic compounds, is non-flammable and will not cause scaling of high pressure hot water coils. It is non-toxic and if correctly used will not attack rubber or plastics.

USES

Ecoclean 2230 is most effective in the removal of oil, tar, bitumen, fuels etc., from metal or painted surfaces. It is formulated particularly for removing lubricating oil, greases, sludge and fuel etc., from chassis engine compartments. Ecoclean 2230 is approved as a Bilge cleaning material. Ecoclean 2230 diluted with water to 10% makes an excellent cleaner for concrete floors. For chassis cleaning Ecoclean 2230 is used through a high pressure hot water cleaner.

METHOD OF USE

Ecoclean 2230 can be used undiluted or diluted with kerosene or water. Application may be spray, brush, swab or any other convenient method.

When it is used cold Ecoclean2230 should be allowed to soak into the soil and then hosed off with water.

A method for cleaning fuel tanks is to fill them to about 20% of their capacity with water and then add Ecoclean 2230 in the ratio of 15% parts Ecoclean 2230 to 100 parts of water. Movement will then induce emulsification of adhering oil and sludge. For soak cleaning of components, a concentration of 15-50% v.v. in water should be used.

EFFECTS OF MATERIALS OF CONSTRUCTION

Ecoclean 2230 is non-corrosive to the majority of metals and will have no effect on good quality paint schemes.

Providing the material is used in correct way at the correct dilution it will have no effect on most types of plastic or rubber.

PRECAUTIONS

Avoid contact with skin and eyes. Wear protective clothing including gloves and eyes shields. A de-fatting action on skin may accrue. In case of eyes contact, wash immediately with water. Avoid breathing any spray fumes. No smoking or naked flames.

TECHNICAL INFORMATION

Appearance	Brown mobile
Density	0.97 g/ml at 20°C



TAMARIN RUST REMOVER 674

CHEMICALS

DESCRIPTION

Rust Remover 674 is a clear acid cleaner, which is used to remove rust from iron and steel surfaces and from painted surfaces.

USES

Rust Remover 674 is designed for removing rust or other contamination from ferrous metals prior to painting. It is also a cleaner for aluminum and bleeding rust on paint work.

METHOD OF USE

To remove rust from floor plates, bulkheads etc., dilute one part of Rust Remover 674 with 1-5 parts of water, depending on degree of rust.

Apply the solution with a rug, brush, roller or spray.

Allow the solution to act for few minutes, then rinse with fresh water.

Use same procedure for removing rust from wooden or painted surfaces.

To clean rust from small parts: remove dirt by brushing or wiping. Immerse parts in a solution of Rust Remover 674 (1 part to 4 or 5 parts water) for 15 to 20 minutes. Remove and wipe dry. Repeat if rust remains.

PRECAUTION

Rust Remover 674 contains acid and care should be exercised while handling it. Prevent contact of either the concentrated or diluted product with eyes or mouth. Goggles and rubber gloves must be worn when handling. Liquid splashed must be rinsed off quickly. To prevent damage to the operators, protective clothing, rubber or P.V.C. boots and aprons are recommended. Operators should rub a protective cream into hands before starting work. If the solution is splashed into the eyes, wash with liberal quantities of water and obtain immediate medical attention.

STORAGE :

Keep away from heat. Protect from freezing.

TECHNICAL INFORMATION

Density:	1.4 g/ml at 20°c .
Appearance:	Clear viscous liquid
Packing size:	7 kg, 75 kg



ELECTRICAL CLEANER 554

CHEMICALS

Code: 809-054

DESCRIPTION:

ELECTRICAL CLEANER 554 is a safe, non flammable, cold cleaning solvent used for degreasing and cleaning electrical equipments. It is completely volatile.

USES:

ELECTRICAL CLEANER 554 is used for cleaning electrical motors, generators, contact points, switches, armatures, bearings and other electronic equipments. Electrical Cleaner 554 is a general solvent cleaner for oil and grease.

METHOD OF USE:

ELECTRICAL CLEANER 554 is applied undiluted as a soaking or dipping solution in a tank or bucket, by brushing, wiping with a clean lint free cloth, or by spraying with a hand spray gun.

ELECTRICAL CLEANER 554 will evaporate from a surface in about twenty minutes depending on the condition of the surface. Mild steel tanks are suitable and should be fitted with lids in order to minimize loss by evaporation.

When using dipping method, grease and oil will go into solution and this will leave a film on the surface of components after evaporation of the electrical cleaner. This problem may be solved by rinsing in a second tank of the cleaner.

EFFECTS ON CONSTRUCTION MATERIALS:

ELECTRICAL CLEANER 554 is normally not corrosive to the majority of metals.

Some swelling of rubber may occur with material. ELECTRICAL CLEANER 554 has a slight effect on some paints and the majority of insulating materials, therefore it is recommended to check it's compatibility with the paint system and materials.

PRECAUTION:

Avoid contact with eyes. Avoid prolonged contact with skin. Use rubber condition of good ventilation. Do not breathe spray and vapor. No smoking or other open flames permitted. Open containers with caution. Wear protective clothing including PVC or rubber gloves and apron when using large quantities of the product.

STORAGE: Keep away from heat.

SPECIFIC TECHNICAL INFORMATION

Density:	1.08g/ml at 20°C.
Appearance:	Clear liquid
Packing size:	25 kg
Flash point:	Although ELECTRICAL CLEANER 554 has no flash point as supplied, continuous use in tanks may result in a change in the Solvent balance and a more definite flash point. The flash point will not be lower than 40°C (105° F Abel).

GENERAL INFORMATION:

Electrical Cleaner 554 will evaporate from a surface, in about twenty to thirty minutes, Depending on condition of the surface.

PACKING SIZE: 20 kg

Tamarin

