

Turning coatings into business leverage



EURONAVY EE01 - TDS

A modified solvent free epoxy (amine cured), designed to be applied directly on wet or dry surfaces. It has excellent anticorrosive properties, good chemical resistance and excellent impact resistance

SOLVENT FREE

- Reduces undesirable solvent release into the environment.
- Also reduces the risk for the applicator.
- No risk of solvent entrapment within the film.
- Higher film thickness without the risk of cracking.
- High compatibility with existing coatings.

DESIGNED TO BE APPLIED DIRECTLY ON DRY OR WET SURFACES

- Can be applied without relative humidity or dew point restrictions
- Reduces the non-productive periods due to high relative humidity or dew point
- No requirements for dehumidifiers.
- Ideal for hydroblasting method but also for conventional blasting methods complemented by low pressure water cleaning:
Assures better surface preparation

SURFACE TOLERANT

- Combines surface tolerance with high durability
- Adherent oxides tolerant (flash rust M grade according to SSPC VIS4(I)/NACEN.97 standard).
- Fully compatible with all types of surface preparation methods.
- High compatibility with existing coatings.
- When applied over shop-primer EURONAVY ENGINEERING EP31, reduces the surface preparation needs after cutting and welding (no need to remove the shop-primer).



EURONAVY ENGINEERING EE01

Solvent free epoxy coating for wet surfaces

Technical Data Sheet

Description:

EURONAVY ENGINEERING EE01 is a modified solvent free epoxy (amine cured), designed to be applied directly on wet or dry surfaces. It has excellent anticorrosive properties, good chemical resistance and excellent impact resistance. It has no dew point restrictions and no problems with relative humidity.

USE:

EURONAVY ENGINEERING EE01 can be applied as a primer, intermediate or finishing coat (however, there may be small color and gloss changes from batch to batch and in the final shade depending on the temperature and relative humidity during application and cure). Can be applied on ships, marine structures, offshore platforms and many other industrial applications.

Technical Data:

Colours	Red Oxide – EE01062; Light Grey – EE01010; White - EE01000; Black - EE01099.		
Finish	Semi gloss.		
Mixing Ratio	By weight: 5,2:1 – By volume: 3,3:1.		
Curing Agent	KEE01M (M version); KEE01H (H version).		
Specific Gravity (mixture)	1,31 ± 0,05 Kg/dm ³ .		
Volume of Solids	100% (theoretical).		
Flash Point	>102°C (ASTM D56).		
Theoretical spreading rate	8 m ² /Lt – 125 microns.		
VOC	Solvent free product.		
Pot Life	<u>H Version</u>	<u>M Version</u>	
	3 hours (25° C)	45 minutes (25° C)	
	90 minutes (35° C)	15 minutes (35° C)	
Dry to touch (max.) and overcoating period		<u>H Version</u>	<u>M Version</u>
	DRY TO TOUCH	14 hours (25° C)	10 hours (25° C)
		10 hours (35° C)	8 hours (35° C)
	OVERCOATING PERIOD	25° C: Min. 16 hours; Max. 7 days 35° C: Min. 12 hours; Max. 6 days	25° C: Min. 16 hours; Max. 7 days 35° C: Min. 12 hours; Max. 6 days
Ambient and substrate temperature		<u>H Version</u>	<u>M Version</u>
	AMBIENT TEMPERATURE	Min. 15°C	Min. 10°C
	SUBSTRATE (min)	10°C	10°C
	SUBSTRATE (max)	50°C	50°C
Packing	4Lt; 20 Lt.		



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Approvals

Euronavy Engineering.

APPLICATION GUIDE:

SURFACE PREPARATION

New steel: Oil and grease shall be properly removed. Wash the surface with high pressure water to remove salt and other soluble contaminations. Abrasive blasting to Sa 2½, accordingly to ISO 8501-1. After blasting the surface should be carefully cleaned to remove abrasive dust.

Maintenance: Oil and grease shall be properly removed. **EURONAVY ENGINEERING EE01** can be applied over hydroblasted, abrasive blasted or mechanical treated surfaces. **EURONAVY ENGINEERING EE01** moisture tolerance allows a clean water surface washing before painting. Thus, salt contaminations can be highly reduced. **EURONAVY ENGINEERING EE01** iron oxides tolerance allows to proceed with the coating application even over flash rusted surface equivalent to M grade at SSPC VIS4(I) / NACE N.º7 standard.

MIXING AND THINNING

EURONAVY ENGINEERING EE01 is a two-pack product. Both containers contain the proper ratio of base and curing agent. The entire contents of each container must be mixed together as supplied. Stir base to obtain smooth homogeneous condition not longer than 2 minutes. Add the curing agent slowly to the base under continuous stirring for 3 minutes. **Use the total content of each container.** Use a speed adjustable power mixer. **Thinning is not recommended.** However, if necessary due to operation limitations, thinning is allowed with T003 - epoxy thinner (max. 3% v/v). If the H Version is to be applied below 15°C, keep a 30 minutes induction time without stirring the mixture.

APPLICATION

Recommended primer: **EURONAVY ENGINEERING EE01** can be used as a primer.

Film thickness: can be applied with various thickness, depending on the purpose, application method and application area. Consequently, the theoretical spreading rate will depend of the applied thickness and could change the dry to touch and the cure time.

EURONAVY ENGINEERING EE01 can be applied by roller, brush or airless spray. When airless equipment is used, a 60:1 (or larger) with a 6 bar inlet pressure is recommended. Use a 0,19 to 0,21 tip size.

Dehumidification is not necessary, since **EURONAVY ENGINEERING EE01** can be applied on wet surfaces. Avoid applying over a running water film, water puddles or under direct rain impact.

When working in confined spaces, good ventilation should be provided.



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If the maximum recoating period is exceeded it is necessary to reactivate the surface with: high pressure wash (400 bar) or grinding. In the last case the surface should be carefully cleaned before the repainting.

EURONAVY ENGINEERING EE01 should be stored in a cool well ventilated place, protected from high temperatures. The packs must be kept tightly closed.

Shelf life: 24 months.

Thinner for cleaning purposes: epoxy (T003) or cellulosic type (T077).

This is not a specification and all information is given in good faith. Every values presented as Theoretical were calculated from the product formula, unless otherwise mentioned, and can deviate from laboratory measurements using standard methods that may be not applicable, giving the nature of the products. If requested, Euronavy Engineering can inform any internal measurement method used to determinate any given value presented. This Technical Data Sheet content can be changed without previous notice. Since conditions of use are beyond the manufacturers control information contained herein is without warranty, implied or otherwise, and final determination of the suitability of any information or material for the use contemplated, the manner of use and whether there is any infringement of patents is the sole responsibility of user. The product is intended for professional use only. Manufacturer does not assume any liability in connection with the use of the product relative to coverage, performance or injury. For application in special conditions please consult Euronavy Engineering for detailed recommendations.