UMEGUARD SX

Product description:

UMEGUARD SX is a surface tolerant multipurpose primer/finish with excellent physical properties such as adhesion and toughness.
It has good adhesion to a wide range of existing coatings.
It can be used as a finish coat when excellent cosmetic properties are not essential.
It is an ideal on-board primer because it can be overcoated with the most of all finishes.
It is suitable for application to slightly corroded areas where optimum pretreatment is not practical.
Easy to clean the coating between the cargo shifts.
UMEGUARD SX has a FDA approval for carriage of grain.

TECHNICAL DATA				
Type:	Surface tolerant Epoxy primer/finish.			
Recommended use:	Multipurpose use, deck, hold, hatch cover, other steel structures. UMEGUARD SX is suitable for maintenance and repair of ships in service.			
Surface Preparation:	New steel: Consult your CMP representative for recommendations. Repair/Maintenance: Remove oil and grease etc. Remove salt and the other contaminants by (high pressure) fresh water cleaning and completely dry. Clean damaged area by abrasive blasting to the standard Sa2 (ISO 8501-1:2007) minimum or power tooling to St2 (ISO 8501-1:2007) minimum. Water jetting: Consult your CMP representative for recommendations. Type and degree of surface preparation depends on type and condition of actual substrate and on desired performance. Use in accordance with standard worldwide marine specifications.			
Physical Data:	Colour:	White, Black, Redbrown, Grey, Green.		
	Flash point:	27°C (Mix)		
	Volume solids %:	57 ±2	(ISO : 3233 (1998))	
	VOC (Theoretical):	437 g/l		
Application Details:	Mixing ratio:	Base: 85	Hardener: 15	(by volume)
	Thinner:	EPOXY THINNER A		
	Min.Temperature:	5 °C		
	Surface temperature:	Dew point + minimum 3°C		
	Max. humidity:	85% R.H.		
	Application Data:	Airless spray, brush, roller*		
		Add the hardener to the base whilst mixing. Stir well before use.		
For airless spray:	Tip No.:	Graco 419 - 623		
	Paint output pressure:	14.7 - 17.7 MPa		
	Thinning:	0 - 15% (by volume)		
Film thickness and spreading rate:		Min.	Max.	
	Film Thickness, wet:	132	351	µm
	Film Thickness, dry:	75	200	µm
	Spreading Rate: (theoretical)	7,6	2,9	m²/l
Preferable preceding coating:	CERABOND 2000, NZ PRIMER S, EPICON ZINC RICH PRIMER B-2, Wide range of existing coatings.			
Preferable subsequent coating:	UMEGUARD SERIES, EPICON FINISH SERIES, ACRI 700 FINISH, UNY MARINE HS M.			
Packing:	Two Pack Product			

Notes: * In case of brush or roller application more layers may be required to achieve the specified film thickness. When painting edges and welds, stripe coating is recommended.
In confined spaces such as tanks, void spaces, etc. ventilation is required during application and curing to remove vapours and to promote curing.
Umeguard SX will chalk on exposure to UV light. For a long lasting cosmetic finish apply Uny marine.

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Temperature	Drying time (at DFT 200 µ)	Overcoating interval (at DFT 200 µ)	Induction time	Pot life	Dry to launch	Remarks
-5 °C	-	-	-	-	-	-
0 °C	-	-	-	-	-	-
5 °C	Surface dry:4.5 hours Hard dry 44 hours	Min.: 44 hours Max.: ***	-	24 hours	-	**
10 °C	Surface dry:3.5 hours Hard dry 27 hours	Min.: 27 hours Max.: ***	-	14 hours	-	* 20 days
20 °C	Surface dry:2.5 hours Hard dry 17 hours	Min.: 17 hours Max.: ***	-	8 hours	-	* 12 days
30 °C	Surface dry:1.5 hours Hard dry 12 hours	Min.: 12 hours Max.: ***	-	5 hours	-	* 7 days

* Waiting time before the first cargo loading.
** Consult Chugoku Marine Paints for further details.
Note: Drying times and overcoating intervals will increase with increasing film thickness applied.
Before re-coating, always check that the existing paint film is 'through' dry.
***For overcoating details, see overcoatablility table on page 3.

Safety information: If Health, Safety and Environmental information is required a Health and Safety Data Sheet can be obtained from Chugoku Paints B.V.

Personal Protection advice and additional information can be obtained from the product Health and Safety Data Sheet which is available on request. The minimum safety precautions in dealing with this paint are:
a. Observe the precautionary notices displayed on the container.
b. Provide adequate ventilation.
c. Avoid skin contact and inhalation of spray mist and vapours.
d. If the product comes into contact with the skin, wash thoroughly with luke warm water and soap or suitable cleaner. If the eyes are contaminated, irrigate with water and seek medical advice immediately.
e. Since the product contains flammable materials, keep away from sparks and open flames. No smoking should be permitted in the area.

Definitions:

Tolerances:	The numerical information quoted in this Technical Data Sheet is subject to normal manufacturing tolerances.
Spreading Rate:	The spreading rate can vary depending on application conditions, the geometrical complexity of the structure, the weather conditions, etc.
Volume Solids:	The volume solids figure given in this Technical Data Sheet is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions measured by the Chugoku Standard Method corresponding to ASTM method D2697.
Overcoating Intervals:	The intervals given assume preparation consistent with good painting
Hard dry:	The time taken until the product can be walked on without damaging it. Time taken until full mechanical strength is obtained is longer.
V.O.C.:	Theoretical quantity of volatile organic compounds in g/l.

Disclaimer:

Data, specifications, directions and recommendations given in this data sheet represent test results or experience obtained under controlled or specially defined circumstances.Their accuracy, completeness or appropriateness under the actual conditions of any intended use is not guaranteed and must be determined by user. Product data is subject to change without notice and automatically void two years from issue. All legal relations of Chugoku Paints B.V. will be governed by the Uniform Terms of Sale and Delivery of Chugoku Paints B.V. as last filed with the district court of Rotterdam and upon request they will be made available without charge. Chugoku Paints B.V. explicitly rejects the applicability of any General Conditions, which its contractual parties may use. Exclusive jurisdiction: competent Court in Rotterdam.

The Inspector will undertake to the best of their ability, to carry out assistance during application of the products delivered by Chugoku, by only rendering advice in connection with the application at site. The Inspector undertakes to carry out the project in a conscientious manner, but Chugoku and/or the Inspector will not accept any kind of liability, direct or indirect, if the project does not give the results expected. Under all circumstances, the Buyer remains responsible for the execution of the project. Any advice and/or assistance rendered by the Inspector will be subject to such (final) responsibility of the buyer, and moreover subject to the Uniform Terms of Sale and Delivery of Chugoku Paints B.V. Even when damages or delays have been caused by faults or negligence on the side of Chugoku and/or the Inspector, such will not result in any liability whatsoever of Chugoku or the Inspector. Liability of both Chugoku or the Inspector for any consequential damages is explicitly excluded.

Some products have been specially modified to adapt to specific European requirements with regard to European-, national- and local laws and regulations or with regards to specific European use requirements. As a result some physical properties in a TDS may differ from those given in the original Japanese TDS.

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Overcoatability between UMEGUARD SX and various subsequent coats for various vessel parts

PARTS	SUBSEQUENT COATS		5 ºC	10 ºC	20 ºC	30 ºC
EXPOSED AREA	UMEGUARD SX	Min. Max.	44hr. 180 days	24hr. 180 days	17hr. 180 days	12hr. 180 days
	UMEGUARD SX QD	Min. Max.	44hr. 60 days	24hr. 60 days	17hr. 60 days	12hr. 60 days
	ACRI 700 FINISH	Min. Max.	44hr. 7 days	24hr. 7 days	17hr. 7 days	12hr. 7 days
	EPICON FINISH series	Min. Max.	44hr. 120 days	24hr. 120 days	17hr. 120 days	12hr. 120 days
	UNY MARINE HS M	Min. Max.	44hr. 30 days	24hr. 30 days	17hr. 30 days	12hr. 30 days
TOPSIDE	UMEGUARD SX	Min. Max.	44hr. 60 days	24hr. 60 days	17hr. 60 days	12hr. 60 days
	UMEGUARD SX QD	Min. Max.	44hr. 60 days	24hr. 60 days	17hr. 60 days	12hr. 60 days
	ACRI 700 FINISH	Min. Max.	44hr. 3 days	24hr. 3 days	17hr. 3 days	12hr. 3 days
	EPICON FINISH series	Min. Max.	44hr. 90 days	24hr. 90 days	17hr. 90 days	12hr. 90 days
	UNY MARINE HS M	Min. Max.	44hr. 5 days	24hr. 5 days	17hr. 5 days	12hr. 5 days