

# UMEGUARD SX HS QD

**Product description:**

UMEGUARD SX HS QD is a surface tolerant multipurpose primer with excellent physical properties such as adhesion and toughness.

It has good adhesion to a wide range of existing coatings and can be used as a primer for all areas.

It is suitable for application to slightly corroded areas where optimum pretreatment is not practical.

Easy to clean the coating between the cargo shifts.

**TECHNICAL DATA**

<b>Type:</b>	Modified anticorrosive epoxy paint.		
<b>Recommended use:</b>	Anti-corrosive paint for ship's bottom, cargo holds, in- and outside of accommodation space, void space, cofferdam, engine room, pipeline, other steel structures, etc. For use at maintenance and repair.		
<b>Surface Preparation:</b>	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.		
<b>Physical Data:</b>	Colour:	Grey, Red Brown	
	Flash point:	34°C (Mix)	
	Volume solids %:	77 ±2	(ISO : 3233 (1998))
	VOC (Theoretical):	232 g/l.	
<b>Application Details:</b>	Mixing ratio:	Base: 81	Hardener: 19 (by volume)
	Thinner:	EPOXY THINNER A	
	Min. Temperature:	-5°C, Max. 20 °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.	
<b>For airless spray:</b>	Tip No.:	Graco 419 - 623	
	Paint output pressure:	15 - 25 MPa	
	Thinning:	0 - 15% (by volume)	
<b>Film thickness and spreading rate:</b>	Min.	Max.	
	Film Thickness, wet:	130	260 µm
	Film Thickness, dry:	100	200 µm
	Spreading Rate:	7,7	3,9 m <sup>2</sup> /l
	(theoretical)		
<b>Preferable preceding coating:</b>	CERABOND 2000, NZ PRIMER S, EPICON ZINC RICH PRIMER B-2, Wide range of existing coatings.		
<b>Preferable subsequent coating:</b>	UMEGUARD SERIES, EPICON SERIES, ACRI 700 FINISH, UNY MARINE, BANNOH 1500 R Z, SILVAX SQ-K, CMP AC.		
<b>Packing:</b>	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 HS QD will chalk on exposure to UV light. For a long lasting cosmetic finish apply Unymarine.

Excessive thinning results in reduced sag resistance and paint film property.

Temperature	Drying time (at DFT 150 µ)	Overcoating interval (at DFT 150 µ)	Induction time	Pot life	Dry to launch	Remarks
-5 °C	Surface dry: 18 hours Hard dry 50 hours	Min.: 50 hours Max.: 7 days	-	9 hours	-	*
0 °C	Surface dry: 14 hours Hard dry 36 hours	Min.: 36 hours Max.: 7 days	-	7 hours	-	*
5 °C	Surface dry: 9 hours Hard dry 22 hours	Min.: 22 hours Max.: 7 days	-	5 hours	-	*
10 °C	Surface dry: 4 hours Hard dry 12 hours	Min.: 12 hours Max.: 7 days	-	3 hours	-	*
20 °C	Surface dry: 1,5 hours Hard dry 7 hours	Min.: 7 hours Max.: 7 days	-	1,5 hours	-	*
30 °C	-	-	-	-	-	-

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.

Please consult CMP for full cure times before loading cargo in the holds.

If painting intervals are exceeded, it may be required to roughen the surface.

\*Overcoating intervals apply to UMEGUARD SX HS QD recoated by itself. For overcoating details for exposed area and topside with other products, see overcoatability 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:

- Observe the precautionary notices displayed on the container.
- Provide adequate ventilation.
- Avoid skin contact and inhalation of spray mist.
- 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.
- Since the product contains flammable materials, keep away from sparks and open flames. No smoking should be permitted in the area.

<b>Definitions:</b>	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.

## Overcoatability between UMEGUARD SX HS QD and various subsequent coats for various vessel parts

SUBSEQUENT COATS	EXPOSED AREA	CARGO HOLD	TOPSIDE	BOTTOM
UMEGUARD SX HS	Max. 7 days	Max. 7 days	Max. 7 days	Max. 7 days
UMEGUARD SX HS QD	Max. 7 days	Max. 7 days	Max. 7 days	Max. 7 days
ACRI 700 FINISH	Max. 2 days	N	Max. 1 day	N
EPICON MARINE FINISH	Max. 7 days	N	Max. 7 days	N
EPICON MARINE FINISH HB	Max. 7 days	N	Max. 7 days	N
UNY MARINE	Max. 4 days	N	Max. 2 days	N
SILVAX SQ-K	N	N	N	Max. 4 days
BANNOH 1500 R Z	Max. 7 days	N	Max. 7 days	Max. 7 days
CMP AC	Max. 7 days	N	Max. 7 days	Max. 7 days