

# UNY MARINE HS



## Product Data Sheet

No. 5526(S1)

### Product Information

#### Generic Type

Two component acrylic polyurethane finish

#### Description

High build acrylic polyurethane resin for finish coating

#### Colour & Appearance

White, As specified, except metallic Gloss

**Solids by Volume ( % )** 57 ± 2

#### Features

- Excellent adhesion and recoatability
- Excellent weather resistance (gloss retention)
- Suitable for topcoat of anti-corrosive paint system
- Excellent physical properties such as toughness, impact and abrasion resistance
- Excellent resistance to oil and chemicals
- Excellent durability while maintaining tough paint film for a long term
- Easy application

#### Recommended Use

As a topcoat of epoxy and polyurethane paint system for various plants, steel structures, tank externals and bridges.

### Regulatory Information

#### Flash Point

Base : 18.0 °C

Hardener : 29.5 °C

**Specific Gravity ( Mixed )** : 1.39 ± 0.05 g / ml  
( ISO 2811 )

**V.O.C. as supplied** : 375 g / litre  
( Calculated from the formula with White colour product )

**UN Class / Packing Group** : Base : 3 / II  
Hardener : 3 / III

**UN Shipping No.** : 1263

### Packaging & Handling Information

#### Packaging : 2 packs

Base Pack ( Liquid silver )

Hardener Pack ( Liquid clear )

Package size may vary from country to country according to local requirements

#### Storage Condition

- Must be in accordance with national regulation.

- Keep well ventilated space.

- Keep away from source of heat and ignition.

Temperature : 5 - 50 °C

Humidity : 0 - 90 % RH

Shelf Life at 25 °C : 12 months

Subject to re-inspection

#### Disposal of Package

Dispose in separate closed metal container in accordance with all applicable regulations.

### Practical Information

<b>Mixing Ratio</b> Base : Hardener =	5 (83.3)	:	1 (16.7)	( by weight )
	77	:	23	( by volume )
<b>Dry Film Thickness</b>	50	-	70	microns
<b>Wet Film Thickness</b>	88	-	123	microns
<b>Theoretical Coverage</b>	0.088	-	0.123	litre / m <sup>2</sup>
	11.4	-	8.1	m <sup>2</sup> / litre

Temperature			5 °C	10 °C	20 °C	30 °C
Drying Time ( at D.F.T. 70 microns )	Surface Dry ( ISO 1517 )		1 hr..	40 min.	30 min.	20 min.
	Hard Dry ( ISO 9117 )		24 hrs.	12 hrs.	8 hrs.	6 hrs.
Overcoating Interval ( at D.F.T. 70 microns )	Minimum		24 hrs.	12 hrs.	8 hrs.	6 hrs.
	Maximum	To self Overcoating	( * )	( * )	( * )	( * )
		To Preferable Subsequent Coats	-	-	-	-
Induction Time			30 min.	30 min.	30 min.	30 min.
Pot Life ( ISO 9514 )			24 hrs.	20 hrs.	16 hrs.	8 hrs.

( \* ) Consult Chugoku Marine Paints for further details.

## **Surface Preparation**

### **General**

Surface to be painted must be clean ( free from rust, dust, oil, grease, etc. ) and completely dry ( surface temperature must be higher than the dew point 3 °C or more ).

This product should be applied on the preferable preceding coats.

### **Damaged area**

Before the application of UNY MARINE HS, Preferable preceding anti-corrosive coats should be applied for damaged area in accordance with the Product Data Sheet of the preceding coat.

## **Application**

<b>Temperature</b>	Min. -5 °C	
<b>Humidity</b>	Max. 85% RH	
<b>Thinner</b>	URETHANE THINNER A	
<b>Mixing</b>	Material is supplied in two components as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed, it must be used within the pot life as specified.	
<b>Preferable Preceding Coats</b>	EPICON series, UNIVAN series, etc...	
<b>Preferable Subsequent Coats</b>	-	
<b>For Airless Spray</b>	<ul style="list-style-type: none"> <li>- Tip No.</li> <li>- Paint Output Pressure</li> <li>- Spray - gun Speed</li> <li>- Viscosity</li> <li>- Thinning</li> </ul>	GRACO 515, 615, 715 etc. 14.7– 23.5 MPa 80 - 100 cm / sec. 30 - 50 sec. ( Ford Cup No.4 ) 0 - 15 % by volume
<b>For Brush / Roller Brush</b>	Suitable <ul style="list-style-type: none"> <li>- Thinning</li> </ul>	Typically 50 microns can be achieved. 0 - 5 % by volume
<ul style="list-style-type: none"> <li>- Patch or stripe coat for sharp edges, bolts, or crevice should be applied by brush at first.</li> <li>- Before subsequent coat application, all chalks ( if existed ) and any contaminations should be removed.</li> <li>- Sufficient ventilation is required for confined space to remove solvent vapour during application and drying.</li> <li>- Wear the suitable protection gears such as glasses, gloves and fresh indrawn to breathing on workers.</li> <li>- The performance of hardener decrease reacting with moisture, please handle with care.</li> </ul>		

## **Safety**

This product should be used only by professional applicators. Consult the current **Chugoku Marine Paints Material Safety Data Sheets**. Follow all local or national health, safety and environmental regulations. Observe all safety labels on packaging and containers. Take precautions against possible risks of fire or explosions as well as protection of the environment. Apply only at ventilated areas. Handle with care.

## **Disclaimer**

This data sheet contains the best and latest of our knowledge on the date of issue on laboratory testing and practical application experience, and subject to change without notice. Since the paints are used under unexpected circumstances in some cases, guarantee can not be given except on the quality of those paints themselves.

- This product coating is not suitable for water immersion.

**Please visit Chugoku Marine Paints, Ltd. Worldwide Network.**

<http://www.cmp.co.jp/>