

# UNIVAN HS PRIMER

(UV HS P)

## PRODUCT DESCRIPTION

**UNIVAN HS PRIMER**, is a high build type epoxy rust preventing paint based on a combination of epoxy resin and special curing agent. It has the following advantages;

1. Excellent rust-preventive property
2. Excellent compatibility with other kind of subsequent paint.
3. Excellent adhesion on low grade surface preparation.
4. Excellent application workability.
5. Excellent physical properties such as toughness, impact and abrasion resistance.

## PRODUCTION INFORMATION

<b>Type</b>	Epoxy primer, high build				
<b>Recommended Use</b>	As a primer for plants, bridges, exterior of oil storage tank, towers, and other steel structures.				
<b>Type of binder</b>	Modified epoxy / amide resin				
<b>Mixing Ratio</b>	Base : Hardener = 78 : 22(by volume)				
<b>Color</b>	Grey, Light grey				
<b>Flash Point</b>	Base : 19.8 °C, Hardener : 17.0 °C				
<b>Solids by Volume</b>	54% ± 2 (Test Method : ISO-3233)				
<b>VOC</b>	388 g/l (EPA Method24), 449 g/l (Korea Air Conservation Act)				
<b>Coverage(Theoretical)</b>	5.4 m <sup>2</sup> /l [0.185 l/m <sup>2</sup> ] at D.F.T 100μm				
<b>Wet Film Thickness</b>	111 ~ 231 μm				
<b>Dry Film Thickness</b>	60 ~ 125 μm				
<b>Drying Time</b> (at D.F.T. 100μm)	Temperature	5°C	10°C	20°C	30°C
	Surface Dry	4 hrs.	3 hrs.	2 hrs.	1 hr.
	Hard Dry	48 hrs.	24 hrs.	16 hrs.	10 hrs.
<b>Painting Interval</b> (at D.F.T. 100μm)	Minimum	48 hrs.	24 hrs.	16 hrs.	10 hrs.
	Maximum	90 days	90 days	90 days	90 days
<b>Pot Life</b>		12 hrs.	6 hrs.	4 hrs.	2 hrs.
<b>Thinner</b>	EPICON THINNER, EPOXY THINNER A				
<b>Method of Application</b>	Airless spray, Brush, Roller				
<b>Condition of Application</b>	Temperature	: Minimum 5 °C			
	Humidity	: Maximum 85 % R.H.			
	For Airless spray ;				
	Tip No.	: GRACO 621, 719, 721			
	Paint output pressure	: 14.7 – 23.6 MPa			
	Viscosity	: 1.2 – 1.8 Pa.s			
<b>Preferable Preceding Coats</b>	CERABOND 2000, EPICON ZINC RICH PRIMER B-2, etc.				
<b>Preferable Subsequent Coats</b>	UNY MARINE Series, EPICON MARINE HB, etc.				
<b>Packaging</b>	Two pack product				

**TECHNICAL DATA (at 100 $\mu$ m)**

Item		Temp (°C)									
		-5	0	5	10	15	20	25	30	35	40
<b>Set to touch</b>		-	-	4H	3H	2.5H	2H	1.5H	1H	50m	40m
<b>Dry to recoat</b>	<b>Min.</b>	-	-	48H	24H	18H	16H	12H	10H	8H	6H
	<b>Max.*)</b>	-	-	90D	90D	90D	90D	90D	90D	90D	90D
<b>Dry to hard</b>		-	-	48H	24H	18H	16H	12H	10H	8H	6H
<b>Dry to immerse</b>	<b>Body</b>	-	-	-	-	-	-	-	-	-	-
	<b>Touch-up</b>	-	-	-	-	-	-	-	-	-	-
<b>Dry to Touch-up</b>		-	-	48H	24H	18H	16H	12H	10H	8H	6H
<b>Pot life</b>		-	-	12H	6H	5H	4H	3H	2H	1.5H	1H
<b>Shelf life (M)</b>		-	-	12M	12M	12M	12M	12M	12M	12M	12M
<b>Max. heat resistance</b>		120°C									

Abbreviation ; Y : Year, M : Month, D : Day, H : Hour, m : Minute

Notes :

- \*) Please consult with CSP sales office.
- In common with all epoxy coatings, UNIVAN HS PRIMER will show chalking and fading on exposure to UV light.

**RECOMMENDABLE SURFACE PREPARATION**

All surfaces to be free from various contaminants (oil, grease, dust, spray dust and etc.) and keep surfaces dry. Kindly consult CSP sales office for specific information.

**SAFETY PRECAUTIONS**

In order to ensure safe use of our product, please be sure to follow the safety precautions indicated on the SDS and the paint container. If you need further explanation, do not hesitate to consult our personnel or our local distributors before buying, opening, using, or disposing the product. Since product contains flammable materials, keep away from sparks and open flame. No smoking should be permitted in the area on painting.

Wear an appropriate protector (eye and face protection, protective clothing, barrier creams, etc) when mixing, applying, or drying the paint. If products come into contact with the skin, wash thoroughly with warm water and soap or suitable cleaner. If the eyes is contaminated, irrigate with water and seek medical advice immediately.

**DISCLAIMER**

The information, including data, specifications, directions and recommendations, contained in this Data Sheet describes the experiment results under controlled or specially defined conditions and we do not guarantee that the Products, when used under the actual conditions of any intended use, will produce the same results. The performance of the Products in their actual use is affected by various factors, and the User must judge whether the Products are suitable for specific uses. We do not guarantee the performance of the Products under any specific operation environment other than the performance of the Products under the conditions described in this Data Sheet.

The content of this Data Sheet, which is intended for facilitation of the User's understanding and convenience of use of the Products, is subject to change at any time without prior notice. We use our best efforts to reflect the latest and most accurate information in this Data Sheet, but we will not bear any liability whatsoever relating thereto. The User must confirm that the Data Sheet is the latest version prior to using the Products.

We do not guarantee the performance or safety of the Products when used for a purpose or use other than what is described herein. Nor will we be liable for any explanation or guarantee provided by any distributor or sales agent with respect to the Products, other than what is described in this Data Sheet.

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