SILICON HR PRIMER

(SN HR P)

PRODUCT DESCRIPTION

SILICON HR PRIMER is a silicon resin primer based on silicon resin with curing accelerator.

It has the following characteristics.

1. Excellent heat resistance (up to 700℃)
2. Excellent weathering resistance
3. Excellent application workability
4. Excellent adhesion property

PRODUCT INFORMATION

Type	Silicon resin heat resisting primer				
Recommended Use	As undercoat for boiler, Cylinder of engine, Inside of exhaust pipes, Radiator, Oil burner, etc.				
Type of binder	Silicon resin				
Mixing Ratio	Base : Curing accelerator = 100 : 1.53 (by volume)				
Color	White				
Flash Point	Base : 23.0℃ Curing accelerator : 38.3℃				
Solids by Volume	41% ± 2 (Test Method : ISO-3233)				
VOC	527 g/ℓ (Korea Air Conservation Act)				
Coverage(Theoretical)	16.40 ㎡/ℓ [0.061 ℓ/㎡] at D.F.T 25㎛				
Wet Film Thickness	61 ㎛				
Dry Film Thickness	25 ㎛				
Drying Time (at D.F.T. 25㎛)	Temperature	5℃	10℃	20℃	30℃
	Surface Dry	1 hr.	50 min.	30 min.	20 min.
	Hard Dry	7 hrs.	5 hrs.	3 hrs.	1 hr.
Painting Interval (at D.F.T. 25㎛)	Minimum	24 hrs.	20 hrs.	16 hrs.	10 hrs.
	Maximum	-	-	-	-
Pot Life		32 hrs	28 hrs	24 hrs	16 hrs
Thinner	RAVAX THINNER, SILICONE THINNER A				
Method of Application	Airless spray, Brush				
Condition of Application	Temperature : Minimum 0 ℃ Humidity : Maximum 85 % R.H. For Airless spray ; Tip No. : GRACO 415 Paint output pressure : 8.8 - 11.8 MPa Viscosity : 25 - 35 sec.(Ford Cup No. 4)				
Preferable Preceding Coats	-				
Preferable Subsequent Coats	SILICON HR, SILICON HR SILVER, etc.				
Packaging	Two pack product				

TECHNICAL DATA (at 25㎛)

Item \ Temp (℃)		-5	0	5	10	15	20	25	30	35	40
Set to touch		-	90m	60m	50m	40m	30m	25m	20m	15m	10m
Dry to recoat	**Min.**	-	28H	24H	20H	18H	16H	13H	10H	8H	6H
	Max.	-	-	-	-	-	-	-	-	-	-
Dry to hard		-	10H	7H	5H	4H	3H	2H	1H	0.8H	0.6H
Dry to immerse	**Body**	-	-	-	-	-	-	-	-	-	-
	Touch-up	-	-	-	-	-	-	-	-	-	-
Dry to Touch-up		-	10H	7H	5H	4H	3H	2H	1H	0.8H	0.6H
Pot life		-	36H	32H	28H	26H	24H	20H	16H	12H	8H
Shelf life (M)		-	12M	12M	12M	12M	12M	12M	12M	12M	12M
Max. heat resistance		700℃									

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

Notes :

1. Paint film will reach full cure after 2 hours at 200 C. It should be heated gradually, e.g. by conducting steam into the steam pipe; do not heat abruptly until full cure.
2. Max. allowable DFT : Preferably less than 125 micron.
3. Agitate Base with a power agitator until it is turned homogeneous, and then combine entire contents of Curing Accelerator with Base and mix thoroughly with power agitator. Then add appropriate thinner and mix thoroughly.

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.

Furthermore, each of the Products described herein is composed of various chemical substances, some of which may contain toxic and/or harmful ingredients and may cause harmful results as a result of misuse or overuse of the Products. For specific causes of risk, conditions of use, harmfulness, etc. of each of the Products, please carefully read, prior to use of the Products, the MSDS (Material Safety Data Sheet) inserted in each of the Products. We will not be liable for any accident that may be caused in violation thereof.

The information given in this sheet is effective at the date shown above and subject to revision from time to time without notice.