

GALBON S-HB

(GB S-HB)

PRODUCT DESCRIPTION

GALBON S-HB is an alcohol soluble inorganic zinc paint based on a combination of ethyl silicate and selected zinc dust. It gives excellent protection against corrosion and prolonged weather resistance, and is highly resistant to oil and solvent as well as fresh and salt water. **GALBON S-HB** withstands temperature of up to 400°C. A film thickness of 50-100microns can be built in one application.

PRODUCT INFORMATION

Type	Inorganic zinc silicate alcohol soluble and self-curing, high-build type.					
Recommended Use	As a protective coating for oil tanks, solvent tanks, ballast tanks, outside hull, deck, heating pipes, holds, other steel structures, etc.					
Mixing Ratio	Base : Powder = 70 : 30 (by volume), 25 : 75 (by weight)					
Color	Grey					
Flash Point	Base : 14.5 °C		Powder : °C			
Solids by Volume	60% ± 2 (Test Method : ISO-3233)					
VOC	462 g/l (EPA Method24), 490 g/l (Korea Clean Air Conservation Act)					
Coverage(Theoretical)	8.00 m ² /l [0.125 l/m ²] at D.F.T 75µm					
Wet Film Thickness	83 – 125 µm					
Dry Film Thickness	50 – 75 µm					
Drying Time (at D.F.T. 75µm)	Temperature	0°C	5°C	10°C	20°C	30°C
	Surface Dry	90 min.	40 min.	30 min.	20 min.	10 min.
	Hard Dry	9 hrs.	6 hrs.	5 hrs.	4 hrs.	3 hrs.
Painting Interval/Organic paints (at D.F.T. 75µm)	Minimum	120 hrs.	72 hrs.	32 hrs.	24 hrs.	18 hrs.
	Maximum	-	-	-	-	-
Painting Interval / Itself (at D.F.T. 75µm)	Minimum	9 hrs.	6 hrs.	5 hrs.	4 hrs.	3 hrs.
	Maximum	-	-	-	-	-
Pot Life	18 hrs.	14 hrs.	10 hrs.	7 hrs.	5 hrs.	
Thinner	GALBON S-HB THINNER, INORGANIC SHOP PRIMER THINNER Series					
Method of Application	Airless spray, Brush(only for touch-up)					
Condition of Application	Temperature	: 0 - 50 °C				
	Humidity	: Maximum 85 % R.H.				
	For Airless spray ;					
	Tip No.	: GRACO 417, 419, 517, 519				
	Paint output pressure	: 9.8 MPa				
Viscosity	: 10 - 12 sec.(Ford Cup No.4)					
Preferable Preceding Coats	GALBON SP, CERABOND 2000					
Preferable Subsequent Coats	Any one of our products and/or the equivalent, e.g. Inorganic zinc paint, Epoxy paint					
Packaging	Two pack product					

* : Before cargo loading or ballasting after completion of painting, washing down of tank is necessary after 24hours curing time at least and then these curing time is required.

TECHNICAL DATA (at 75 μ m, 50% R.H)

Item		Temp (°C)		-5	0	5	10	15	20	25	30	35	40	
Set to touch				210m	90m	40m	30m	25m	20m	15m	10m	8m	5m	
Dry to hard				20H	9H	6H	5H	4.5H	4H	3.5H	3H	2.5H	2H	
For Organic Top coat	Dry to Recoat	Min.	G/S-HB	20H	9H	6H	5H	4.5H	4H	3.5H	3H	2.5H	2H	
			Organic	10D	5D	3D	32H	27H	24H	20H	18H	15H	13H	
			Organic (Underwater)	14D	14D	14D	10D	10D	7D	7D	7D	7D	7D	7D
		Max	G/S-HB	-	-	-	-	-	-	-	-	-	-	-
			Organic	-	-	-	-	-	-	-	-	-	-	-
			Organic (Underwater)	-	-	-	-	-	-	-	-	-	-	-
For PC	Dry to recoat	Min.	-	32H	24H	20H	18H	16H	13H	10H	8H	7H		
		Max	-	-	-	-	-	-	-	-	-	-		
	Dry to Immerse	Body coat*	-	10D	7D	3D	2.5D	2D	40H	36H	30H	24H		
		Touch up*	-	10D	7D	3D	2.5D	2D	40H	36H	30H	24H		
Pot life				28H	20H	14H	10H	8H	7H	6H	5H	4H	3H	
Shelf life (M)				6M	6M	6M	6M	6M	6M	6M	6M	6M	6M	
Max. heat resistance				Dry : 400°C, Immersion : continuous 60°C / Non-continuous 75°C										

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

Notes :

- GALBON S-HB coating must not be exposed to acid and alkaline atmosphere.
- Agitate Base with a power agitator, then combine entire contents of Powder little by little and mix thoroughly by power agitator slowly. Then add appropriate thinner and mix thoroughly.
- During application, mixed paint should be stirred slowly and constantly to avoid zinc pigments settling.
- Don't add water. Water becomes the cause of rising viscosity and getting hard.
- To avoid dry spray, spray gun should be kept suitable distance from substrate surface.
- When humidity is below 50% RH, longer curing time is required.
- Mist coat is needed before application of subsequent coat(organic paint).
- In case an organic top coat is applied, dry film thickness of GALBON S-HB should be controlled at 50-100 microns.

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 are 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.