

# CERABOND 2000

(CB 2000)

## PRODUCT DESCRIPTION

**CERABOND 2000**, a two pack inorganic zinc shop primer, provides good cutting and welding properties with less weld defects at high speed welding, suitable for high speed gas cutting. It is highly resistant to white rust so that it shows long term anticorrosive properties after being heated up to 800°C, which reduces the cost and working process of secondary surface preparation.

## PRODUCT INFORMATION

Type	Inorganic zinc silicate shop primer				
Recommended Use	As a shop primer for steel substrate of vessels, bridges, oil tanks, and other marine structures.				
Type of binder	Ethyl silicate				
Mixing Ratio	Paste : Base = 42 : 58 (by volume)				
Color	Green, Grey, Light Grey, Brown, Grey S				
Flash Point	Paste : 22.5 ℃,    Base : 13.5 ℃				
Solids by Volume	30% ± 2 (Test Method : ISO-3233)				
VOC	584 g/l (Korea Clean Air Conservation Act)				
Coverage(Theoretical)	20.00 m <sup>2</sup> /ℓ [0.050 ℓ/m <sup>2</sup> ] at D.F.T 15μm				
Wet Film Thickness	33 - 100μm				
Dry Film Thickness	10 - 30μm				
Drying Time (at D.F.T. 15μm)	Temperature	5℃	10℃	20℃	30℃
	Surface Dry	3 min.	3 min.	2 min.	2 min.
	Hard Dry	6 min.	5 min.	4 min.	3 min.
Painting Interval (at D.F.T. 15μm)	Min. Organic	14 days.	10 days.	7 days.	7 days.
	Inorganic	16 hrs.	8 hrs.	4 hrs.	4 hrs.
	Maximum	180 days	180 days	180 days	180 days
Pot Life		36 hrs.	30 hrs.	24 hrs.	15 hrs.
Thinner	INORGANIC SHOP PRIMER THINNER series				
Method of Application	Airless spray, Brush, Roller				
Condition of Application	Temperature	: -5 ~ 40 ℃			
	Humidity	: Maximum 90 % R.H.			
	For Airless spray ;				
	Tip No.	: GRACO 617 - 923			
	Paint output pressure	: 3.8 – 8.9 MPa			
	Viscosity	: 9 - 11 sec.(Ford Cup No.4)			
Preferable Subsequent Coats	Various types of finish coats. Vinyl resin paints and alkyd resin paints (except for ROSWAN QD HB) are incompatible.				
Packaging	Two pack product				

**TECHNICAL DATA (at 15 $\mu$ m)**

Temp (°C)		-5	0	5	10	15	20	25	30	35	40
Item											
<b>Set to touch</b>		5m	4m	3m	3m	3m	2m	2m	2m	1m	1m
<b>Dry to recoat</b>	<b>Min.(Organic)</b>	14D	14D	14D	10D	8D	7D	7D	7D	6D	6D
	<b>Min.(Inorganic)</b>	20H	18H	16H	8H	5H	4H	4H	4H	3H	3H
	<b>Max.</b>	6M	6M	6M	6M	6M	6M	6M	6M	6M	6M
<b>Dry to hard</b>		8m	7m	6m	5m	4.5m	4m	3.5m	3m	2.5m	2m
<b>Dry to immerse</b>	<b>Body</b>	-	-	-	-	-	-	-	-	-	-
	<b>Touch-up</b>	-	-	-	-	-	-	-	-	-	-
<b>Dry to Touch-up</b>		20H	18H	16H	8H	5H	4H	4H	4H	3H	3H
<b>Pot life</b>		48H	42H	36H	30H	26H	24H	18H	15H	12H	8H
<b>Shelf life (M)</b>		6M	6M	6M	6M	6M	6M	6M	6M	6M	6M
<b>Max. heat resistance</b>		Continuous: 400°C / Non-continuous: 800°C									

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

**Notes :**

1. Continue slow gentle stirring during application to avoid precipitation. Fast stirring will increase the viscosity of the mixture and may result in gelling.
2. Relative humidity during application should ideally be 50-90%. For the PSPC use, please refer to PSPC's TDS. Some of the figures and recommendations are different (e.g. Humidity: Max 85%RH).
3. Drying time indicated (below 10°C) is only a guide provided that pre-heating and after-heating is conducted (at 50-90%RH). When the relative humidity is low, curing/drying time will be longer.
4. Base component is self-curing/moisture curing. Avoid high humidity and/or rain as much as possible. Do not store the products on side. If it needs to be stored outdoors, make sure to protect the products from being exposed to rainfall etc. by covering with plastic sheet. In the case the paint cans are wet due to rainfall during transportation or the like, extra care must be taken when opening/mixing in the can so that the paint is not contaminated with water.

**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.

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