

# BANNOH 2000

(B 2000)

## PRODUCT DESCRIPTION

**BANNOH 2000**, is a multi-purpose epoxy primer, which provides excellent physical properties including toughness, abrasion resistance and adhesion, etc., It has an excellent flexibility and resistance to sea water and cathodic protection. This product is IMO PSPC type approved for WBT and COT, applicable to most area of ship.

## PRODUCT INFORMATION

Type	Polyamine adduct cured epoxy				
Recommended Use	Anti-corrosive paint for ship's hull, exposed decks, superstructures and ballast water tanks, etc.				
Type of binder	Pure Epoxy / Polyamine adduct resin				
Mixing Ratio	Base : Hardener = 82 : 18 (by volume)				
Color	Brown, Red Brown, Grey, Light grey, Yellow grey and specified colors				
Flash Point	Base : 32.5 °C, Hardener : 27.0 °C				
Solids by Volume	80% ± 2 (Test Method : ISO-3233)				
VOC	185 g/l (EPA Method24), 271 g/l (Korea Clean Air Conservation Act)				
Coverage(Theoretical)	5.00 m²/l [0.200 l/m²] at D.F.T 160µm				
Wet Film Thickness	125 – 313 µm				
Dry Film Thickness	100 – 250 µm				
Drying Time (at D.F.T. 160µm)	Temperature	5 °C	10 °C	20 °C	30 °C
	Surface Dry	10 hrs.	7 hrs.	3 hrs.	1 hrs.
	Hard Dry	28 hrs.	18 hrs.	9 hrs.	5 hrs.
Painting Interval (at D.F.T. 160µm)	Minimum	28 hrs.	18 hrs.	9 hrs.	5 hrs.
	Maximum	-	-	-	-
Pot Life		8 hrs.	6 hrs.	3 hrs.	1.5 hrs.
Thinner	EPICON THINNER, EPOXY THINNER A				
Method of Application	Airless spray, Brush, Roller				
Condition of Application	Temperature	: Minimum - 5 °C			
	Humidity	: Maximum 85 % R.H.			
	For Airless spray ;				
	Tip No.	: GRACO 619, 621, 623			
	Paint output pressure	: 14.7 - 17.7 MPa			
	Viscosity	: 1.5 - 2.0 Pa·s			
Preferable Preceding Coats	CERABOND 2000, EPICON ZINC RICH PRIMER B-2, etc.				
Preferable Subsequent Coats	BANNOH 1500R Z, EPICON MARINE HB, UNY MARINE Series, etc.				
Packaging	Two pack product				

**TECHNICAL DATA (at 160 $\mu$ m)**

Temp(°C)		-5	0	5	10	15	20	25	30	35	40
Item											
<b>Set to touch</b>		33H	22H	10H	7H	6H	3H	2H	1H	1H	40m
<b>Dry to recoat</b>	<b>Min.</b>	86H	56H	28H	18H	16H	9H	8H	5H	4H	3H
	<b>Max.*)</b>	25D	25D	20D	20D	20D	20D	15D	15D	15D	15D
<b>Dry to hard</b>		86H	56H	28H	18H	16H	9H	8H	5H	4H	3H
<b>Dry to immerse</b>	<b>Body</b>	16D	9D	6D	5D	4D	3.5D	3D	2.5D	2D	2D
	<b>Touch-up</b>	12D	7D	3.5D	3D	2.5D	2D	1.5D	1.5D	1.5D	1.5D
	<b>Minor touch up</b>	10D	5D	3D	2.5D	2D	1.5D	1D	1D	1D	1D
<b>Dry to Touch-up</b>		86H	56H	28H	18H	16H	9H	8H	5H	4H	3H
<b>Pot life</b>		24H	15H	8H	6H	4H	3H	2H	1.5H	1H	0.5H
<b>Shelf life (M)</b>		12M	12M	12M	12M	12M	12M	12M	12M	12M	12M
<b>Max. heat resistance (Dry)</b>		150°C									
<b>Max. heat resistance (Wet)</b>		Continuous: 60°C / Non-continuous: 75°C									

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

Notes :

1. \*) For water ballast tank
2. Allowable Max DFT of Multiple coats : up to 2000 microns
3. In common with all epoxy coatings, BANNOH 2000 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.

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.