



BANNOH 2000

Product description:

BANNOH 2000 is a multi-purpose, high solid epoxy primer offering excellent physical properties such as toughness, impact and abrasion resistance, flexibility and resistance to sea water.

TECHNICAL DATA

Type: Polyamine adduct cured epoxy

Recommended use: Anti corrosive paint for chemical, petrochemical & power plants, offshore, bridges, wind towers, piping under insulation and other steel structures.

Surface Preparation: Best results are obtained on steel gritblasted to ISO-Sa 2.5.
All surface contamination such as dirt, grease, oil, etc. must be removed.
A surface profile of 40 – 75 micron is recommended.
Can be applied over suitable shop or blast primer.

Physical Data: (Mix)



Colour:	Red Brown, Light grey		
Flash point:	27°C (Mix)		
Volume solids %:	80	±2	(ISO : 3233 (1998))
VOC (g/l):	252	Theoretical	

Application Details:

Mixing ratio:	Base: 82	Hardener: 18	(by volume)
Mixing ratio:	Base: 88	Hardener: 12	(by weight)
Thinner:	EPOXY THINNER A		
Min. Temperature:	-5** °C		
Surface temperature:	Dew point + minimum 3°C		
Max. humidity:	85% R.H.		
Application Data:	Airless spray, brush*		

Add the hardener to the base whilst mixing. Stir well before use.

For airless spray:

	Tip No.:	Graco 619, 621, 623
	Paint output pressure:	14.7 - 17.7 MPa
	Thinning:	0 - 7 % (by volume)

Film thickness and spreading rate:

	Min.	Max.	
Film Thickness, wet:	125	313	µm
Film Thickness, dry:	100	250	µm
Spreading Rate:	8,0	3,2	m ² /l (theoretical)

Preferable preceding coating: CERABOND 2000, EPICON ZINC HB-2, EPICON ZINC HB-2 SH, NZ PRIMER S, GALBON S-HB.

Preferable subsequent coating: BANNOH series, UNYMARINE HS, EPICON MARINE FINISH, FLUOREX FINISH, ACRI FINISH, PERMAX 3000 S, CMP FLAMECHECK SS-2800.

Packing: Two Pack Product

Notes: * In case of brush application more layers may be required to achieve the specified film thickness.
When painting edges and welds, stripe coating is recommended.
In confined spaces such as tanks, void spaces, etc. ventilation is required during application and curing to remove vapours and to promote curing.

** At low temperatures below 5°C BANNOH 2000 QD, which is a quick dry version, is recommended.



Overcoatability

Temperature	Drying time (at DFT 200 µ)	Overcoating interval (at DFT 200 µ)	Induction time	Pot life	Remarks
-5 °C	Surface dry:33 hours Hard dry 86 hours	Min.: 86 hours Max.: 25 days	-	24 hours	-
0 °C	Surface dry:22 hours Hard dry 56 hours	Min.: 56 hours Max.: 25 days	-	15 hours	-
5 °C	Surface dry:10 hours Hard dry 28 hours	Min.: 28 hours Max.: 25 days	-	8 hours	-
10 °C	Surface dry:7 hours Hard dry 18 hours	Min.: 18 hours Max.: 25 days	-	6 hours	-
20 °C	Surface dry:3 hours Hard dry 9 hours	Min.: 9 hours Max.: 20 days	-	3 hours	-
30 °C	Surface dry:1 hour Hard dry 5 hours	Min.: 5 hours Max.: 15 days	-	1,5 hours	-

Notes: *For overcoating details, please consult CMP.

Drying times and overcoating intervals will increase with increasing film thickness applied.

Before re-coating, always check that the existing paint film is 'through' dry.

Safety information: If Health, Safety and Environmental information is required a Health and Safety Data Sheet can be obtained from Chugoku Paints B.V.

Personal Protection advice and additional information can be obtained from the product Health and Safety Data Sheet which is available on request. The minimum safety precautions in dealing with this paint are:

- Observe the precautionary notices displayed on the container.
- Provide adequate ventilation.
- Avoid skin contact and inhalation of spray mist.
- If the product comes into contact with the skin, wash thoroughly with luke warm water and soap or suitable cleaner. If the eyes are contaminated, irrigate with water and seek medical advice immediately.
- Since the product contains flammable materials, keep away from sparks and open flames. No smoking should be permitted in the area.

Definitions:	Tolerances:	The numerical information quoted in this Technical Data Sheet is subject to normal manufacturing tolerances.
	Spreading Rate:	The spreading rate can vary depending on application conditions, the geometrical complexity of the structure, the weather conditions, etc.
	Volume Solids:	The volume solids figure given in this Technical Data Sheet is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions measured by the Chugoku Standard Method corresponding to ASTM method D2697 if not otherwise indicated.
	Overcoating Intervals:	The intervals given assume preparation consistent with good painting
	Hard dry:	The time taken until the product can be walked on without damaging it. Time taken until full mechanical strength is obtained is longer.
	V.O.C.:	Theoretical quantity of volatile organic compounds in g/l.

Disclaimer: Data, specifications, directions and recommendations given in this data sheet represent test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use is not guaranteed and must be determined by user. Product data is subject to change without notice and automatically void two years from issue. All legal relations of Chugoku Paints B.V. will be governed by the Uniform Terms of Sale and Delivery of Chugoku Paints B.V. as last filed with the district court of Rotterdam and upon request they will be made available without charge. Chugoku Paints B.V. explicitly rejects the applicability of any General Conditions, which its contractual parties may use. Exclusive jurisdiction: competent Court in Rotterdam.

The Inspector will undertake to the best of their ability, to carry out assistance during application of the products delivered by Chugoku, by only rendering advice in connection with the application at site. The Inspector undertakes to carry out the project in a conscientious manner, but Chugoku and/or the Inspector will not accept any kind of liability, direct or indirect, if the project does not give the results expected. Under all circumstances, the Buyer remains responsible for the execution of the project. Any advice and/or assistance rendered by the Inspector will be subject to such (final) responsibility of the buyer, and moreover subject to the Uniform Terms of Sale and Delivery of Chugoku Paints B.V. Even when damages or delays have been caused by faults or negligence on the side of Chugoku and/or the Inspector, such will not result in any liability whatsoever of Chugoku or the Inspector. Liability of both Chugoku or the Inspector for any consequential damages is explicitly excluded.

Some products have been specially modified to adapt to specific European requirements with regard to European-, national- and local laws and regulations or with regards to specific European use requirements. As a result some physical properties in a TDS may differ from those given in the original Japanese TDS.