

BANNOH 500 R

Product description:

BANNOH 500 R is a tar free epoxy anti-corrosive primer, based on pure epoxy resin and pigmentation.

It gives excellent physical properties such as toughness and abrasion resistance and especially excellent adhesion with anti-fouling paint.

It is suitable for outside hull, deck and superstructure of ships.

TECHNICAL DATA

Type:	Tar-free epoxy paint
Recommended use:	Anti corrosive paint for repair ships. Tie coat for antifouling paint.

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.
For one coat systems, apply over preceding coatings such as EPICON ZR B2, NZ PRIMER S.

Physical Data:	Colour:	Grey
(Mix)	Flash point:	30°C (Mix)
	Volume solids %:	60 ±2
	VOC (Theoretical):	390 g/l.

Application Details:	Mixing ratio:	Base: 85	Hardener: 15 (By Volume)
	Thinner:	EPOXY THINNER A	
	Min. Temperature:	5 °C	
	Max. humidity:	Maximum 85% R.H.	
	Application Data:	Airless spray, air spray, brush* Add the hardener to the base whilst mixing. Stir well before use.	

For airless spray:	Tip No.:	Graco 423, 425, 427
	Paint output pressure:	14.7 - 17.7 MPa
	Thinning:	0 - 5% by volume

Film thickness and spreading rate:	Min.	Max.	
Film Thickness, wet:	125	292	µm
Film Thickness, dry:	75	175	µm
Spreading Rate: (theoretical)	8,0	3,4	m ² /l

Preferable preceding coating: EPICON ZINC RICH PRIMER, NZ PRIMER S, etc.

Preferable subsequent coating: SEA GRANDPRIX 330 HS / 330 R / 500 / 500 HS / 500 M / 500 M HS / 1000 / 2000, ACRI FINISH, EPICON MARINE FINISH, UNY MARINE, SEATENDER series, TFA series, etc.

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.

Temperature	Drying time (at DFT 175 µ)	Overcoating intervals (at DFT 175 µ)	Pot life	Dry to launch	Remarks
-5 °C	-	-	-	-	-
0 °C	-	-	-	-	-
5 °C	Surface dry:5 hours Hard dry:24 hours	Minimum: 24 hours Max.: 150 days	18 hours	-	*
10 °C	Surface dry:4 hours Hard dry:20 hours	Minimum: 20 hours Max.: 150 days	14 hours	-	*
20 °C	Surface dry:3 hours Hard dry:10 hours	Minimum: 10 hours Max.: 150 days	7 hours	-	*
30 °C	Surface dry:2 hours Hard dry:8 hours	Minimum: 8 hours Max.: 150 days	4 hours	-	*

Note: 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.

*Overcoating intervals apply to BANNOH 500 R recoated by itself. For overcoating details, see overcoatability table on page 3.

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:

- a. Observe the precautionary notices displayed on the container.
- b. Provide adequate ventilation.
- c. Avoid skin contact and inhalation of spray mist.
- d. 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.
- e. 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.
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.

Subsequent coat	Min.				Max.			
	5 °C	10 °C	20 °C	30 °C	Bottom	Boot Top	Topside	Outside & Deck
ACRI 700 FINISH	12hrs	8hrs	4hrs	3hrs	X	X	7days	7days
EPICON MARINE FINISH	16hrs	12hrs	8hrs	6hrs	X	7days	7days	7days
BANNOH 500R	18hrs	15hrs	8hrs	6hrs	150 days	150 days	150days	150days
UNY MARINE	30hrs	22hrs	16hrs	11hrs	X	X	3days	3days
EVAMARINE	18hrs	15hrs	8hrs	6hrs	X	X	X	7days(*)
SEA GRANDPRIX 660 HS	12hrs	8hrs	4hrs	3hrs	3days	3days	-	-
SEA GRANDPRIX 330 R	12hrs	8hrs	4hrs	3hrs	3days	3days	-	-
SEA GRANDPRIX 500	12hrs	8hrs	4hrs	3hrs	3days	3days	-	-
SEA GRANDPRIX 220 HS	12hrs	8hrs	4hrs	3hrs	3days	3days	-	-
SEA GRANDPRIX 500 M HS	12hrs	8hrs	4hrs	3hrs	3days	3days	-	-
SEA GRANDPRIX 1000	12hrs	8hrs	4hrs	3hrs	5days	5days	-	-
SEA GRANDPRIX 2000	12hrs	8hrs	4hrs	3hrs	5days	5days	-	-
TFA / SEATENDER	12hrs	8hrs	4hrs	3hrs	1day	1day	-	-
RAVAX AF	12hrs	8hrs	4hrs	3hrs	1day	1day	-	-

(*) : Inside areas

X : We can not apply.