

PROTAR EPOXY BIC-12000

No. TD : B-002
Revision : 05
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PRODUCT DESCRIPTION & USES

PROTAR EPOXY BIC-12000 is a high build polyamide cured coal tar epoxy. This product is effectively used for sewage pipes, marine structure, piling pipe, ballast tank, ship bottoms, bridges and any area requiring a high degree of protection from aggressive environment.

FEATURES

- Good Resistance Against Chemically Polluted Water
- Good Toughness and Flexible
- Good Corrosion Resistance

PRODUCT SPECIFICATION

Color	: Black, Brown
Finish	: Semigloss
Volume Solid	: 63 ± 2%
Specific Gravity	: 1.27 ± 0.05 g/cc
Flash Point	: 27 °C
Packaging	: 5 & 20 Liters set
Storage Stability	: 24 Months. If it is stored in cool and dry place, also in its original not opened package. (Do not store below freezing point)

APPLICATION

Application Condition : 25 – 35 °C, 60 – 80 %RH
Mixing Ratio :

A Component	:	B Component	=	4 : 1 (v/v)
(BIC - 12000)	:	(BICH - 12000 PS)		

Thinner	: THME-90100, THME-90110, THME-90120.						
Application Method	: <u>Airless Spray</u> <u>Air Spray</u> <u>Brush/Roller</u>						
Thinning Ratio by Volume	: 5 – 10% 15 – 20% 5 – 15%						
Tip Size for Airless Spray Gun	: 0.013 – 0.017 inch Air Pressure : approx. 170 bar/2500 psi						
Nozzle Orifice for Air Spray	: Approx. 1 – 1.5 mm Air Pressure : approx. 3-4 bar/40-60 psi						
Wet Film Thickness (WFT)	: 160 – 240 microns or 6.4 – 9.6 mils						
Dry Film Thickness (DFT)	: 100 – 150 microns or 4.0 – 6.0 mils						
Theoretical Coverage	: 6.30 m ² /liter set (DFT = 100 microns)						
Pot Life	: <table border="1"> <thead> <tr> <th>20°C</th> <th>30°C</th> <th>40°C</th> </tr> </thead> <tbody> <tr> <td>4 – 5 hours</td> <td>3 – 4 hours</td> <td>2.5 – 3.5 hours</td> </tr> </tbody> </table>	20°C	30°C	40°C	4 – 5 hours	3 – 4 hours	2.5 – 3.5 hours
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FILM PROPERTIES

Drying Time (@ DFT = 100 mic)	: <table border="1"> <thead> <tr> <th>20°C</th> <th>30°C</th> <th>40°C</th> </tr> </thead> <tbody> <tr> <td>4 – 5 hours</td> <td>3 – 4 hours</td> <td>2.5 – 3.5 hours</td> </tr> <tr> <td>24 – 26 hours</td> <td>20 – 24 hours</td> <td>19 – 24 hours</td> </tr> </tbody> </table>	20°C	30°C	40°C	4 – 5 hours	3 – 4 hours	2.5 – 3.5 hours	24 – 26 hours	20 – 24 hours	19 – 24 hours
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• Surface Dry	: 4 – 5 hours									
• Hard Dry	: 24 – 26 hours									
• Full Cure	: 7 days (30°C)									
Re-coating Interval	: Minimum 24 hours (30°C) : Maximum 72 hours (30°C)*									

Provide adequate ventilation during application and drying.

Note : Epoxy coatings will characteristically chalk and fade upon exposure to sun light

*It is depends on weather, exposure, thickness, storage.

*For more details please contact PROPAN Technical supervisor

Chemical resistance

Exposures	Splash/Spillage/Outdoor Resistance/Mild Fumes
Acids	Good
Alkalis	Good
Salt	Good
Solvents	Poor
Water	Excellent

RECOMMENDED COATING SYSTEM

Primer Coat : **PROTAR EPOXY BIC-12000**

Finish Coat : **According to specification**

Recommended Dry Film Thickness : 2 coats (100 microns / coat)

SURFACE PREPARATION

1. All surfaces should be clean, dry and free from contamination accordance with SSPC-SP 1 solvent cleaning.
2. Oil or grease should be removed by solvent cleaning or industrial detergent.
3. Blast cleaning with suitable blasting material minimum Sa2, hand or power tool cleaning to a minimum standard of St2 in accordance with the ISO 8501-1 : 1988 or SSPC-SP 2.
4. Provide adequate ventilation during application.

INSTRUCTION FOR USE

Prepare one mixture (A+B) as much as needed for application. Firstly stir well Comp. A **BIC-12000** until homogeneous, add Comp. B **BICH - 12000 PS** and mix thoroughly. Mix ratio **Comp. A : Comp. B = 4 : 1 (by volume)**. Apply mixed material using airless spray, brush or roller. Use Thinner **THME-90100** or **THME-90110** or **THME-90120** as solvent cleaner. Do not apply the mixed material after pot life time is over. Provide adequate ventilation during application and drying.

SAFETY PRECAUTION

Avoid contact with the skin and eyes. Wear suitable protective coating, such as overalls, goggles, dust mask, and gloves. Use barrier cream. This product is flammable. Do not smoke. Use only explosion proof equipment. Do not breathe vapor of spray. Provide adequate ventilation during application.

FIRST AID:

- General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Eyes : In the case of accidental splashes, flush eyes with clear running water for 5 minutes while holding eyelids open. If irritation persist, seek medical attention.
- Skin : Wash off thoroughly with plenty of water and soap. Do not use solvent or thinner. Removed contaminated clothing. If irritation persist, seek medical attention.
- Inhalation : Remove affected person to fresh air area, loosen collar, and provide oxygen if breathing is difficult. If affected person is not breathing, administer CPR and seek emergency medical attention.

DISCLAIMER

This document contains information issued based on the best and latest of Propan's knowledge in accordance to laboratory testing and practical application experience. The end user must test the product's suitability for their specific application and purpose. Propan shall not be liable for defects where the application of the Product has not been made fully in accordance with the recommendations and requirements. This document is subjected to change without further notice. Please consult Propan for any specific guidance on the suitability of this product for their needs or for any specific application practices.