



EP 300

Epoxy bonding agent

DESCRIPTION

EP 300 is a two component, polyamide epoxy based bonding agent. It is specifically designed for bonding new render or concrete to aged or old concrete substrates. It acts as a high strength bonding bridge between old and new concrete.

USES

- Bonding old and new concrete
- Bonding agent for concrete repairs

FEATURES

- Excellent bond strength
- Forms a structural bond between new and old concrete
- Can be applied to damp surfaces
- Excellent adhesion to most substrates
- Resistant to chemical attack
- Supplied in pre-weighed units

PHYSICAL PROPERTIES

EP 300	@ 27 ± 1°C
Appearance	Off white colour, with brushable consistency
Pot life	2 - 3 hours
Mixed density	1.38 g/cc
Initial cure	48 hours
Full cure	7 days
Bond strength	
After 1 day	> 2.0 N/mm ²
Compressive strength	
After 7 days	76.0 N/mm ²
BS 6319 Part-2	
Flexural strength	
BS 6319 Part-3	50.0 N/mm ²
Tensile strength	
BS 6319 Part-7	> 13.0 N/mm ²
Shear strength Test	
BS 6319 Part-4	> 5.0 N/mm ²
VOC Content	25.27 g/L

COVERAGE ESTIMATES

Pack Size	Coverage
1 kg	Approximately 2.0 m ² /kg
Part A 800 g	@ 250 microns
Part B 200 g	
5 kg	
Part A 4 kg	
Part B 1 kg	

APPLICATION INSTRUCTIONS:

Substrate preparation:

The surface to be treated must be dry, clean, structurally sound, free from oil, grease, wax, polish, laitance, dust and other barrier materials.

Mixing

Both Part A and Part B components should be thoroughly stirred before being mixed together. The entire contents of Part A should be poured in a mixing vessel and add Part B. Mix thoroughly using a mechanical mixer to achieve a smooth homogenous mix. Part mixing should be avoided. One or more packs can be mixed simultaneously to ensure a quick rate of application.

Application

Immediately after mixing, using a brush apply the mixed material onto the prepared surface. While it's still tacky, place the new render or concrete and finish as required. Repeat the process until the full area to be treated is complete.

Limitations

EP 300 should be applied whilst the surface temperature is between 10° to 35°C. The product will not cure below 10°C, but will recommence curing when the temperature rises above 10°C. Curing time will also be adversely affected in situations where relative humidity is > 85%. Good ventilation should be provided during curing cycle.

Cleaning

EP 300 can be removed from tools and equipment by using RTC 100 immediately after use. Any hardened material will need to be removed mechanically.

STORAGE AND SHELF LIFE

EP 300 has a shelf life of 12 months if kept in a dry, clean store between 5°C and 30°C in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

PRECAUTIONS

During mixing and application the following precautions should be observed: Ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water. Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to resin-based materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

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DISPOSAL/SPILLAGE

Spillage of any of the product components should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

For further information please refer to the Material Safety Data Sheet.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products. However, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

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