



EP 305

Epoxy resin based adhesive and repair compound

DESCRIPTION

EP 305 is a two-part, thixotropic, high performance epoxy adhesive and repair compound. It does not shrink on cure and ideal for fixing expansion joint tapes, gap filling and concrete repair applications.

USES

- As an adhesive for fixing expansion joint tapes such as WPT 1000
- For filling of blow holes in concrete
- As a crack filling and sealing compound for non-moving joints
- Fixing of surface ports for crack injection
- Dowel bar anchoring

FEATURES

- Pre weighed packaging: easy to mix and apply
- Bonds well with concrete surfaces
- Solvent free adhesive with low VOC
- High strength adhesive/repair compound
- No primer needed
- Can be used in exterior or aggressive environments
- Non shrink
- High abrasion, impact and chemical resistance
- Thixotropic adhesive; suitable for horizontal and vertical applications

PHYSICAL PROPERTIES

EP 305	@ 27 ± 1°C
Colour of the mixed product	Grey paste
Mixed Density	1.85 kg/l
Application Temperature	10 C to 40°C
Service Temperature	10 C to 60°C
Application Thickness	
Horizontal surface	2 -10 mm
Vertical surface	2 mm
Pot Life	Approx 30 minutes
Open Time	30 minutes
Setting Time	12 hrs
Bond Strength	2.0 N/mm ²
Compressive strength	
1day	50 N/mm ²
7days	70 N/mm ²
Flexural strength @ 7days	20 N/mm ²
Tensile strength @ 7days	10 N/mm ²

CHEMICAL RESISTANCE

EP 305 is resistant to alkalis, oils and most common organic and inorganic acids in diluted form. Chemical resistance depends on chemicals involved and their concentration, temperature and degree of exposure etc.

STANDARDS

Meets the requirements of ASTM C 881 Type1 grade 3 Class B & C

COVERAGE ESTIMATES

Pack Size	Yield
3 kg	Approx. 0.810 m ²
Part A - 2 kg	@ 2mm thickness
Part B - 1 kg	

APPLICATION INSTRUCTIONS:

Substrate preparation

The substrate must be hard, sound and free of dust, dirt and other loose material. Metal surfaces have to be prepared as per surface preparation to SA 2^{1/2} profile.

Mixing

The entire contents of Part A and Part B is taken into a vessel and mixed thoroughly using a slow speed mixing paddle to achieve a smooth homogenous mix.

Application

Using a trowel or spatula, the mixed EP 305 is applied to the required level or profile. Solvent wipe the trowel to aid workability and finishing. Where a deep recess is to be filled, it may be required to build up layers. The subsequent layer should be placed within 30 to 45 minutes when the EP 305 is still tacky. Repairs may be camouflaged if required by sprinkling the surface with cement powder before full cure of EP 305.

CURING

Only air curing is required. Curing time will depend on ambient temperature, quantity of material mixed and placed. EP 305 will take 7 days cure at 25°C.

CLEANING

EP 305 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 305 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

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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.

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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