

Polybond EP

Epoxy primer and bonding agent

For the bonding of new concrete /render to old concrete.



CHARACTERISTICS

- ▶ High bonding strength, ultimate bond strength is greater than cohesive strength of concrete
- ▶ Moisture tolerant, can be applied on slightly damp surfaces
- ▶ Non-shrinking
- ▶ High chemical resistance
- ▶ High durability
- ▶ Can be applied in both internal and external areas



DESCRIPTION

Polybond EP is an epoxy bonding agent and adhesive for the bonding of new concrete /render to old concrete. Polybond EP does not shrink and can be applied on slightly damp areas as well.

FIELDS OF APPLICATION

- bonding old to new concrete
- repair of concrete
- old and worn concrete
- glazed tile and bricks
- engineered and semi engineered bricks
- offshore and marine structures

APPLICATION INSTRUCTIONS

Surface preparation

All surfaces must be structurally sound and clean. Remove traces of oil, loose particles, laitance, demoulding agent, curing compound, grease, paint or bitumen. Smooth surfaces shall be abraded to get a mechanical key. If the concrete surface is not suitable or has disintegrated badly, chip off the degraded areas until a sound surface is obtained. New concrete should be cured until the shrinkage and moisture movement is the minimum.

Mixing

Pour part 'B' hardener to part 'A' resin pail and mix thoroughly to get a homogenous color and consistency.



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Application

Polybond EP may be applied evenly with a short haired brush or with a trowel. Place the screed /concrete or repair mortar immediately after application of Polybond EP to avoid contamination. If the bonding agent dries out, apply a fresh coat.

COVERAGE

3-5 m²/L

CLEANING

All tools shall be cleaned with Polysolvent immediately after use. Hardened materials can be removed mechanically only.

STORAGE & SHELF LIFE

Store in a cool, dry place and keep away from all sources of heat and sunlight. In tropical climates, store in air condition rooms. The shelf life is up to 12 months in unopened condition and if stored as per recommendations. excessive exposure to sunlight, humidity and UV will result in the deterioration of the quality of the product and reduce its shelf life.

HEALTH & SAFETY

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. Ensure the container is available for the medical attendant to examine any relevant instructions and content details. Reseal all the containers after use and ensure product is stored as instructed on the safety section of the labeling.

SUPPLY

Polybond EP	1L & 5L kit
Polysolvent	5L & 20L pails

TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Color & appearance	Off white viscous liquid	-
Density, [g/cc]	1.3±0.05	ASTM D 1475
Application life, [minutes]	90	BS 4254
Tack free time, [hours]	5	ASTM C 882
Slant shear bond strength, [N/mm ²]	> 12	ASTM C 882
Water absorption @24 hours, [%]	< 1	ASTM D 570
Standards	ASTM C 881 Type I, II, III, V, VI, Grade 3, class D, E & F	
Application temperature, [°C]	5 to 35	

All values given are subject to 5-10% tolerance

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.