

POLYPOXY CF

Epoxy repair mortar and adhesive

TDS_Polypoxy_CF_0313

1

POLYPOXY CF is a 2 component non-flowing and non-sagging, thixotropic epoxy repair mortar and adhesive. The product is specially formulated with selected resins and quartz fillers for application in hot and tropical climatic conditions.

CHARACTERISTICS

- ▶ Thixotropic. Non slumping
- ▶ Easy to mix and use.
- ▶ Excellent resistance to abrasion and impact
- ▶ Resistant to acids, alkalis, oil, grease, hydrocarbon fuels and saline water.
- ▶ Excellent adhesion on most substrates. No primer required.
- ▶ High initial and final strength.
- ▶ Moisture tolerant. Can be applied on damp surface

FIELDS OF APPLICATION

- ▶ As Concrete repair: Repairing damaged concrete, filling of holes and voids, leak proofing on horizontal, vertical and over head surface
- ▶ As a skim coat or filler on prepared floors prior to application of epoxy coatings and screeds
- ▶ As jointing compound: Can be used to join Pre cast concrete / GRC structures.
- ▶ As a bedding material: Can be used for fixing tiles on heavy duty areas, bedding bridge beams or bridge bearing and for grouting.
- ▶ Excellent for anchoring bolts or replacement rebar and filling bolt pockets.
- ▶ As Insulation: excellent electrical insulation capacity.
- ▶ As a bonding agent: It bonds to almost all rigid surfaces even in damp conditions
- ▶ As a mould: It can be molded to any shape.

APPLICATION INSTRUCTIONS

Surface Preparation

Concrete, mortar, stone, brick surface: The substrate on which POLYPOXY CF will be applied shall be cleaned thoroughly of all loose particles, laitance, dust, oil, grease, paint.

The surface should be free from standing water.

Metal surface: Grit or sand blasting to remove all rust scales shall be carried out. Dew point conditions shall be avoided.

Mixing

POLYPOXY CF is supplied in two separate pails. The contents of Part B and PART A shall be taken out and mixed in a suitable container. If small quantity needs to be mixed then both the parts should be mixed in the ratio of 2:1 (A:B).

The material shall be mixed thoroughly using a proprietary paddle mixer fixed to a slow speed drill till a homogenous and uniform color and consistency is achieved.

Application

As Repair Mortar: A suitable formwork shall be erected on the area which needs to be repaired if the area of repair is quite large. For small repairs and filling of cracks and blow holes can be done by the use of a putty knife or steel trowel.

As an Adhesive: The material can be applied by a trowel, spatula onto the surface in a thin layer when being applied as an adhesive.

The material when applied shall be pressed firmly to ensure a proper adhesion and full contact with the substrate.

On vertical surface the material can be applied at a thickness of 15mm in a single layer. Additional layers can be applied only after the previous layer cure completely.

CLEANING

Clean all the tools with Polysolvent (solvent cleaner) 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 and hot climates, store in air conditioned area.

The shelf life is up to 12 months in un-opened conditions 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 AND SAFETY

As with all construction chemical products caution should always be exercised. Protective clothing such as gloves and goggles shall 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

SUPPLY

Polyoxy CF Part A	4 kg
Polyoxy CF Part B	2 kg
Polysolvent	5lt & 20lt

TECHNICAL PROPERTIES

PROPERTIES	VALUES
Color & appearance	Grey & off white thixotropic paste
Density, (g/cc)	1.9±0.05
Pot life @25°C, (mins)	45
Compressive strength @7 days, (N/mm ²)	>60
Flexural strength @7 days, (N/mm ²)	>30
Tensile strength @7 days, (N/mm ²)	>15
Elongation at break, (%)	>0.7
Shear slant bond strength @7 days, (N/mm ²)	>25
Shrinkage	None
Co-efficient of Thermal expansion	8 x 10 ⁻⁵ /°C
E- Modulus (14 days at 25°C), (N/mm ²)	
Compressive	~2500
Tensile	~2900
Application thickness, (mm/layer)	Upto 15 on vertical
Application temperature, (°C)	
Substrate	20 to 50
Ambient	20 to 50
Service temperature, (°C)	-5 to 70

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 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.

Manufactured in G.C.C.

Henkel Polybit Industries Ltd.
P.O. Box 293, Umm Al Quwain, UAE
Sales Tel: +971 6 7670777, Fax: +971 6 7670197
Factory Tel: +971 6 7670777, Fax: +971 6 7671669

Henkel Polybit Industries Ltd.(Branch)
P.O. Box 2230, Al Khobar 31952, K.S.A
Tel:+9663 8894110, Fax:+9663 8995313



Internet: www.henkelpolybit.com E-mail: polybit@henkelpolybit.com

