

MONNELI POXYCOL

High Performance Epoxy Tile Adhesive

Product Description

POXYCOL is a two component epoxy mortar, based on a combination of epoxy resin, hardener and specially selected fillers.

POXYCOL is characterized by good chemical resistance, and excellent mechanical and adhesion strength.

Uses

POXYCOL is used for internal and external fixing of the following:

- Ceramic tiles
- All types of mosaics
- Natural stones (all types of marble especially those sensitive to water such as verde alpi, rosso sicilia, sandstones, slate),
- Klinker
- Big tiles for both wall and floors

POXYCOL can be applied on all types of substrates including:

- Cement plaster supports
- Concrete
- Asphalt
- Wood
- Metals
- Asbestos-cement
- Plaster
- Plasterboard
- Bituminous membranes

POXYCOL can be used as a tile adhesive wherever excellent mechanical properties, chemical resistance, and hygienic environment are required. This includes chemical factories, food production and processing, catering facilities, electrical and mechanical rooms, services facilities, laboratories, etc.

Advantages

- Non-toxic, hygienic and anti-bacterial
- Good chemical resistance
- Ideal to use in tanks containing acid, industrial, catering facilities, kitchens, laboratories, swimming pools, heavy duty workshops, garages
- High mechanical properties with excellent adhesion to most surfaces
- Impermeable with resistance to staining
- Formulated to suit Middle East conditions

Instructions for Use

Surface Preparation

All surfaces should be sound, clean & uncontaminated. This preparation should leave an exposed concrete surface free from dust, loose particles, deleterious matter, oil, grease, chemical films & other contaminant.

All loose particles of mortar, paint, etc. must be physically removed.

Concrete or blockwork: should be allowed to cure sufficiently so that all shrinkage movements take place before fixing tiles.

The surface of substrates must be moistened slightly with clean water to reduce the absorption of water from the mortar. Do not moisten the tiles.

Metal surfaces must be free from greasy and rusty tracks.

Mixing

Pour component B (hardener) into component A (base), and carefully mix with a low turns electric mixer (200 – 300 per minute) until a homogeneous mix is obtained.

Application

Place the tile onto the adhesive bed. Apply the product onto the support with a toothed spatula, spreading it at first with the straight edge of the spatula, and immediately after with the toothed one.

Apply sufficient pressure on the tile during fixing it with slight twisting movement in order to ensure good contact with the adhesive.

If a tight waterproofing is required to the substrate, spread POXYCOL on the sub base with the smooth spatula and leave a thickness of at least 2 mm. After about 24 hours, apply the second coat of product for the tile fixing.

In case of large size tiles, it is necessary to spread the adhesive also to the backside of the tile and then place the tiles into the adhesive bed.

Apply enough material that can be tiled during the adhesive's open wet time. Spreading large areas may result in drying the adhesive before tiles can be fixed causing poor adhesion.

Finishing

Remove excess adhesive with damp cloth before the material has set. Joint grouting between tiles may be commenced 12 hours after tiles have been laid. Final hardening is about 7 days.

Cleaning

Clean tools with SOLVENTE 10, promptly before the material hardens. Hardened and cured material must be mechanically removed.

Recommendations

- Do not apply during high winds and sand storms
- Do not apply under direct sun
- Keep equipment cool and use cold water

Technical Data

Properties	Results
Appearance	Thixotropic paste
Color	Grey or White
Density	1.55 kg/L
VOC	< 20 g/L
Pot life	60 minutes
Compressive strength	50 N / mm ²
Tensile strength	16 N / mm ²
Flexural strength	29 N / mm ²
Pull-out strength	>3 N / mm ²
Bond shear strength	6.5 N / mm ²
Shrinkage	0.8 mm/m
Water absorption	< 0.05 g
Resistance to moisture	Excellent
Resistance to acids and alkalis	Excellent
Trafficable after (light traffic)	24 hours
Ready for use	After 7 days
Temperature of application	+5°C to 35°C
Service temperature	-5°C to 80°C

All values are subject to 5-10 % tolerance

Applicable Standards

- EN 12004 as R1
- ANSI 118.3
- ISO 13007 as R1
- BS 5980 TYPE 5 CLASS AA
- EN 12808

Consumption

From 3.5 - 5 kg/m² according to type of tiles and substrate condition

Packaging

POXYCOL WB is supplied in 8kg kit two can package

Storage

Store in dry and covered place out of direct sunlight and protect from high temperature (higher than +35°C).

The product maintains its stability for 12 months in unopened condition and if stored as per recommendation.

Health & Safety

Handle the product with caution. Using gloves and goggles, avoid any contact with eyes and skin. In case of contact with eyes, wash abundantly with warm water and consult a doctor immediately.

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