



TILE ADHESIVE EP

High Performance Epoxy Tile Adhesive

Composition and Application Field

TILE ADHESIVE EP is a high performance, three-component, solvent-free epoxy mortar used for fixing and bedding of various tiles and ceramics over concrete and steel surfaces. It is a heavy duty adhesive with a high bonding strength, excellent chemical resistance to acids, alkali and solvents.

Uses

TILE ADHESIVE EP is an ideal material to bed and fix tiles in a single operation with one material. It is used wherever a chemical resistance and excellent mechanical properties are required.

Typical applications include the following:

- To fix a minor marble indoor and outdoor.
- Industrial kitchens and catering facilities.
- Electrical substations and plant rooms.
- Hospitals and Laboratories.
- Swimming pools and leisure facilities.
- Heavy duty workshops and garages.
- Bottling plants and breweries.
- Applicable as a tile grout.

Advantages

- High bonding strength. Easy-on application.
- High ultimate compressive strength. Excellent chemical resistance. Waterproofing.
- Primeless. Non-toxic; can be used in most areas where drink and food are processed.
- Excellent adhesion to most commonly encountered building substrates and materials.
- Suitable for vertical and horizontal applications in interior and exterior locations.
- Available in grey and white colors. No VOC.

Surface Preparation

The surface should be dry (moisture < 5%) and dust should be removed by industrial vacuum.

In order to repair damaged area, cracks and honeycombs, laitance, dust and contaminants should be removed.

Prior to application, **TILE ADHESIVE EP** system should be stored under cover and protected from extremes of temperatures which may cause inconsistent workability and cure times for the mixed material. Ideally, at least 24 hours before mixing, **TILE ADHESIVE EP** system should be maintained at approximately 25°C. During application in cold conditions, correct conditioning can help, but application should be halted if the ambient temperature is likely to fall below 10°C.

Pot life of the mixed material will be affected by ambient temperature.

Mixing

Base and hardener should be mixed together (mix ratio 2:1 by volume) in a suitable container until uniform color is obtained.

Use a heavy duty slow speed power drill with a jiffy mixing blade then add gradually the filler and confirm using steel spatula to remove the holding material.

Apply **TILE ADHESIVE EP** mixture on the bed and above the existing surface and spread by using steel comber trowel. Average thickness 2 - 3 mm.

Curing

Good curing is essential for resin based materials to ensure specified performance. Installation using **TILE ADHESIVE EP** systems can be opened to foot traffic after approximately 24 hours at 25 °C. Complete cure is achieved after 72 hours at 25 °C.

Coverage

3 – 4 m²/ pack

Cleaning

Tools and equipment can be cleaned immediately by using **THINERCOAT 10** organic solvent.

Package

13 kg pack (including base, hardener and filler).

Technical Properties

Density	1850 ± 10 kg/m ³	
Pot Life	1 hour at 25°C	
Compressive Strength (BS 6319 Part 2)	85 N/mm ²	
Bonding Shear Strength (ANSI A118.3)	7,0 N/mm ²	
Tensile Strength (ASTM C307)	16 N/mm ²	
Flexural Strength (ASTM C580)	35 N/mm ²	
Minimum Service Temp	10°C	
Maximum Service Temp	80°C	
Chemical Resistance:		
Hydrochloride Acid	50%	Excellent
Nitric Acid	25%	Excellent
Sulfuric Acid	50%	Excellent
Phosphoric Acid	50%	Excellent
Acetic Acid	10%	Excellent
Lactic Acid	10%	Excellent
Sodium Hydroxide		Excellent
Ammonia	10%	Excellent
Petrol. Oil, Kerosene		Excellent
Butanol		Excellent
Skydrol		Very Good

Application Method

The above Data Sheet is based on our experience and extensive laboratory tests. We guarantee only the quality of the product in this Data Sheet. For safety measurements and details refer to the Safety Data Sheet. Evi reserves the right to modify the contents of the Data Sheet at any time and without prior notice as a system requirement in updating the product.

This Technical Data Sheet surpasses all previously issued versions.

Revision 2 May 20, 2018



TILE ADHESIVE EP

High Performance Epoxy Tile Adhesive

Storage and Shelf Life

Product should be stored at 25oC in dry conditions.
18 months in tightly closed container.

Flammability

TILE ADHESIVE EP is a nonflammable material while **THINNERCOAT 10** is flammable. Do not expose to naked flames during application.

Health and Safety

The material should be applied in a good ventilated area. Avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of eye contact, rinse immediately with plenty of clean water, do not use solvent and seek medical attention immediately. The product complies with environmental and occupational health and safety standards ISO 14001 and OHSAS 18001.