



HB-GROUT

Epoxy grout with high compression strength

◆ Description:

A three-component, repairing and filling polyamine Epoxy grout, with fast set, high compression strength, high durability and easy miscible properties. MB-GROUT has no solvent and has excellent adhesion to concrete and metal surfaces due to high permeability to concrete.

Conforming to the requirements of P606 Standard: for fixing light baseplates in concrete paving of airport, car pathway and landing band. 100% solid and it is suitable for strengthen of substrate and where the concrete has no enough strength.

◆ Advantages:

- Fast set
- Three-component in the packages fit together
- excellent strength
- High compression strength
- High resistance against abrasion, scratch and dynamic loading
- Low gel time
- Flowing mixture
- Ease of application with rake, spatula and trowel
- Can be applied on horizontal and vertical surfaces
- Resistant to moisture, chemicals and other liquids
- Resistant to physical changes
- Long-lasting durability

◆ Main uses :

- Repairing of defect concrete surfaces
- fixing light baseplates in heavy duty surfaces
- Filling expansion joints beneath seamless flooring
- Filling the gap between baseplates and concrete
- As anchoring grout

◆ Physical properties:

Color	Light Amber, gray...
Solids by volume	100%
Density	2.5±0.1 g/cm ³
Mix ratio (by weight)	A:B:C = 2: 1: 10
Mix ratio (by volume)	A:B:C = 1.9: 1: 2.6
Number of components	3
Adhesion to ceramic, stone, concrete	More than 6 MPa
Water absorption	0.02% by weight
Shrinkage during cure	Max 0.01%
Shrinkage after cure	0
Thermal resistance	-30 to +100 °C
Compression strength	100±10 MPa
Hardness(shore D) ASTM-D 2240	85
Packaging	Part A: 10 kg Part B: 5 kg Part C: 50 kg



◆ **Processing properties**

@ 25°C /54% RH:

Gel time	35 min
Tack free	3 hours
Post cure	7 days

◆ **Application guide direction:**

- Surface preparation:

The surface must be dry and free from dust or loose area, these parts should be removed. If the concrete surface is wet or oil contaminated you should use INDUFLOOR-1B 1240 primer, before grouting.

Please note: if the grout is exposed to direct mechanical stress and erosion, use PFEP-2021 or PFEP-2168 primer in order to better adhesion to dry substrate. After priming and drying, substrate should be cleaned (if it is contaminated) then pour the grout.

- mixing:

Mixing ratio is 2: 1: 10 (A: B: C). if lower amount of silica was used, the grout will be more flowing and when higher amount of silica was used, the grout will be more viscous. In order to achieve more resistance, strength and fast setting the silica was added to grout.

First of all please mix part A and B with desired ratio $A/B = 2/1$ %weight. Required amount of silica is depend on mixture weight. For example if we have 1 kg of two components mixture, 3.3 kg silica will be

needed, so we will have 4.3 kg MB-GROUT.

- Grouting:

After mixing of three components, MB-GROUT pour into joints, holes... Grout should cover the substrate perfectly and fill all concrete pores and fill the gap between baseplates and foundation. Pouring can be performed by trowel, spatula and rake.

If surface temperature is high, set time will be decreased.

- Important Advices

Do not open the packages till application time. Should be stored in a sealed container after opening. Before back to service, please check out and be sure about setting the grout. Before pouring on concrete be sure about cleaning and drying of inside holes.

- Storage :

12 months in unopened drums. Keep away from extreme heat, freezing, and moisture. The use of drum heaters is encouraged to reduce material viscosity at low temperatures.

- Warning :

This product may cause allergic problems when contacts with skin or inhaled. Special clothes, masks and anti-chemicals gloves should be utilized during process. Protective creams and glosses should be used in order to protect skin and eyes, respectively.