

Epoxy

MORRITEX

Heavy Duty Floor Mortar Epoxy System



General Properties:

- **MORRITEX** is solvent free Epoxy flooring system, combined with special selected graded sand.
- Heavy duty colored epoxy flooring system.
- Can be applied within thickness from 3mm - 10mm in different colors.

Uses:

- As flooring mortar for concrete exposed to heavy mechanical wear traffic e.g., Factories, Hospitals, Stores, Industrial areas, cooling & freezing rooms for its durability against thermal shock.

Substrate:

Required Properties for concrete floor needed to accept **MORRITEX** layer :

- Reinforced concrete or screed with stress not less than 20.0 kg/cm²
- The substrate must be sound, free of any cement peel.

Application:

Primer:

1. Clean the substrate and remove all foreign materials and weak or separated layers in the substrate.
2. Wear gloves & eye goggles, before application.
3. Choose the suitable primer **EPICHOR 101P**, **EPICHOR 201P** or **EPICHOR MC**.
4. Add the resin to the hardener in a suitable container and mix well.
5. Using a brush or woolen roller paint the substrate with the suitable primer.
6. Sprinkle silica sand (0.5mm) over the applied primer before it sets (About 100 gm/m²) to create mechanical bond.
7. Clean tools using solvent ex.: Thinner.
8. Leave to cure for 24 hr. Consumption of primer depends on the type of primer used and substrate conditions

MORRITEX Body Coat and Clear Top Coat:

1. Add the resin **Epichor 101A** to the hardener in a suitable container & mix well.
2. Start adding the filling material gradually to the mixture with continuous stirring until reaching a homogeneous state.

Resin + Hardener	:	Filling Material
Ratio	:	(A - 10)

by weight.
3. The mortar is then spread uniformly all over the area by means of a trowel with the required thickness, preferred troweling machine within a period that should not exceed 30 min after mixing.
4. Leave to cure for 24 hours.
5. Using a **rubber wipe**, start grouting the **MORRITEX** using **EPICHOR 101A**
6. The final colored top coats shall be applied one coat daily after grouting using epoxy **TONCRETE**.
7. Clean tools using solvent ex.: Thinner.
8. Leave to cure for 24 hours.

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**Consumption for 4 mm Thickness / 1 m²:**

- Primer the substrate : = 0.10 - 0.20 Kg / m² (according to primer and state of)
- Body Coat
 - **Epichor** 1618 (R + H) : = 1.00 Kg / m²
 - Filling : = 8.00 Kg / m²
- Grouting : = 0.30 Kg / m²
- Top 2 coats **TONCRETE** colored: = 0.40 Kg / m²

Technical Data:

Initial Curing Time	: After 24 hours of mixing.
Final Curing Time	: After 7 days at ambient temp.
Pot Life	: 30 min. at 25°C.
Pullout test	
BS-EN 12611 – 2.0.6	: 6.0 N/mm ² (failure to steel bar) 37 after 7 days failure load = 3.7 ton Steel bar = 11 mm embedded length = 161 mm
Abrasion test ESS 269-74	: Thickness loss = 0.93 mm (after 7 days from casting) distance 500m under load 1000 kg (sand from 0.6 – 0.9)
Pulloff test	: Bond to concrete = 2.2 N/mm ² (failure to concrete surface) ASTM D 551 – 90 Compressive strength of concrete = 26.0 N/mm ² bond to steel 37 = 4 N/mm ²
Slant shear	: Failure to concrete layer at load 190 KN ASTM C 882 Failure load = 19 ton (Compressive strength of concrete = 31.4 N/mm ²)
Compressive strength	: 60 N/mm ² (after 7 days) ASTM C 579 method B
Flexural Strength	: 30 N / mm ²
Impact Resistance	: D-3124F passes 16 ft / lb with no cracking or loose of adhesion.
Chemical Resistance	: Excellent resistance against water, alkalis, inorganic acids, poor against: Ketones and glycol ethers. Nitric acid oxidizes colors.
Shelf Life	: 18 months in closed container away from sunlight, heat and humidity.

Environment: - Boots, rubber gloves, dust masks, and safety goggles.
- Refer to MATERIAL SAFETY DATA SHEETS (MSDS)

For more information please contact our technical department

Head Office : 21 Takseem El Awkaf – EL Sawah Sq. Cairo – Egypt

Tel: 002 / 02 24030678 – 24030679 Fax: 002 / 02 24038986

Web site: www.yasmomiser.com E-mail: yasmo@yasmomiser.com