

CIKOtile SPM-40

Smart Chemical Solutions



High performance ceramic tiles, Marbles and Granite thick bed adhesive

Description

CIKOtile SPM-40 is a one component cement based tile adhesive specialized for thick bed application ranging from 4 up to 40mm of all types of heavy or large ceramic tiles marble and granite over all common construction substrates. CIKOtile SPM-40 is a ready mix product that requires only the addition of water at site for usage.

CIKOtile SPM-40 is a factory blended powder consisting of cement, adhesion enhancing polymers, graded fine aggregates, water retention agent, rheology modifier etc.

Properties

- Single component system.
- Easy to mix and use.
- Fixing tiles, marble and natural stone over concrete & cement based screed, mortar and plaster substrate.
- Fixing all types of ceramic tiles and stone on all common construction substrate where slight movements or deflections are likely.
- Good slip resistance.
- Provides good workability and open time.
- Excellent bond strength.
- Excellent water resistance.
- Excellent adhesion in the wet stage during application.
- Non-shrink.

Application area

CIKOtile SPM-40 is a high quality tile adhesive that can be used for interior and exterior applications for:

- Fixing ceramic, mosaic, marble, glass and stone tiles to cement substrates.
- Wet and dry areas.
- Bathrooms, kitchen and other wet areas.

Applicable standards

CIKOtile SPM-40 complies with:

- ANSI A118.4
- BS EN 12004 & ISO 13007-C2
- Complies with Qatar Construction Specifications QCS.

Physical Properties

Form	Powder
Colour	Grey or White
w/p	0.18-0.20
Pot life (25°C)	>80 min
Compressive Strength ASTM C109 @ 28 days (W/P=0.18)	≥17.5 Mpa
Tensile Adhesion Strength BS EN1348 @ all 4 conditions	≥1 Mpa
Tensile Adhesion Strength at open time BS EN1346	≥0.8 Mpa @ 10 mins ≥0.6 Mpa @ 20 mins
Fresh Density (g/cm ³)	1.9±0.05

Coverage

Each bag of 25 kg CIKOtile SPM-40 yields 15 to 16 L and provides coverage for bed applications as follows.

40mm thick solid bed	0.37 to 0.4 m ²
10mm thick solid bed	1.5 to 1.6 m ²
4mm thick solid bed	3.75 to 4 m ²

Coverage rate may vary depending on substrate conditions and finish. Bedding thickness can be maintained from 4 mm to 40 mm.

Application instructions

Surface preparation

The concrete surface should be free from dust and loose particles. In case of traces of oil and grease, the surface shall be treated by acid etching or sand blasting. Curing compounds and sealers, if present, must be removed by mechanical means. On ensuring a sound and clean substrate, wet the surface with clean water just before application of CIKOTile SPM-40.

Mixing

CIKOTile SPM-40 should be mixed with 4.5 to 5 L of water for each bag of 25kg. Use a heavy duty slow speed drill-paddle assembly for mixing. The properly mixed material should be thick, trowel able and of lump free consistency. The amount of water should be minimal to attain the optimum properties of tile adhesive.

Note: In hot weather application, use chilled water to extend the open time of the mixed material.

Application method

Spread the mixed material over the saturated surface area to a uniform thickness. Comb the applied surface using a semi-notched trowel or normal steel trowel as required. Press the tile firmly to the adhesive bed in longitudinal and transversal motion and ensure that the tile is firmly bonded to the substrate. Tile can adjusted for 5 to 10 minutes after initial positioning.

Packaging

CIKOTile SPM-40 is available in 25kg and 50 kg moisture resistant bags.

Shelf life

CIKOTile SPM-40 has a shelf life of 12 months in un-opened bags and if stored in accordance with CIKO instructions.

Storage

CIKOTile SPM-40 should be stored under enclosed shaded area at temperatures between 5 °C and 40°C.

Precautions

- Not use over gypsum boards or gypsum surface.

Health & safety

Use standard dust mask to avoid inhalation of dust. Powder when wet or moist can cause burns to skin and eyes which should be protected during use. If comes in contact with skin/eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

Technical Support

For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries