

CAT No. ADH-07-2401

ISOLITH-M

Waterproof Marble & Tile Adhesive

ISOLITH-M is a two-component, high-bond strength, waterproof thin-set mortar adhesive for permanently fixing tiles. It consists of pre-blended cement, fillers, polymers and separate liquid rubber latex. The resultant adhesive is characterized with high mechanical/ impact properties, chemical and shock resistance and provide a permanent, trouble-free tile installation.

APPLICATIONS

ISOLITH-M is used wherever a permanent, waterproof, chemical and impact-resistant tile installation is required. **ISOLITH-M** is used to fix tiles such as ceramic, porcelain, mosaic, quarry, pavers, brick, marble and natural/ artificial stone cladding over concrete, bricks, and masonry. It is also used to fix ceramic and mosaic tiles over gypsum wallboard, gypsum plaster, existing ceramic tile and existing terrazzo.

ADVANTAGES

- Excellent adhesion to wide variety of substrates.
- Resistant to urine, alkalies, chloride and sulfate salts, oils, grease
- Waterproof-long term resistance to ponded water. Ideal for swimming pool, kitchens, bathrooms
- Shock-resistant-absorbs physical shock and traffic vibration – bridges, underpasses
- High compressive and tensile adhesion strength.
- Tropical grade formula-good open wet time, self-curing
- Weather resistant, exterior/ interior application.

SPECIFICATION

ISOLITH-M conforms with the requirements of BS EN 12004-1: 2017 Class C2 and ANSI A118.4

TYPICAL PROPERTIES

- Slip resistance, BS EN 12004-2: 2017.....< 0.5 mm
- Shear adhesion strength, ANSI A118.4 (7 days)..... > 300 psi
- Compressive strength at 28 days, ASTM CI09 > 2,500 psi (17 N/sq.mm)
- Initial Tensile adhesion at 28 days, BS EN 12004-2: 2017> 1 N/sq.mm
- Open time at 20 minutes, BS EN 12004-2: 2017.....> 0.5 N/sq.mm
- Tensile adhesion strength after water immersion, BS EN 12004-2: 2017..... > 1 N/sq.mm
- Tensile adhesion strength after heat aging, BS EN 12004-2: 2017 > 1 N/sq.mm

DIRECTIONS FOR USE

SURFACE PREPARATION

Surface to be tiled must be plumb-straight, clean, sound, and free from dust, dirt, loose paint, sealers, curing compound, oil, grease, etc.. Recommended methods for preparing concrete are by washing with water and detergent, wire brushing and vacuuming. Surface should be dampened with water prior to applying **ISOLITH-M**.

CONTROL JOINTS

It is highly recommended to install control joints where tile abuts restraining structures such as wall, columns and directly over cold joints in base concrete. Interior installations shall have control joints spaced a maximum 7 x 7 meters

TROWEL NOTCHES

Mosaic & Ceramic (up to 100 x 100mm)	- Use notch 3 x 3mm or 1.5mm Solid bed thickness
Big Tiles with/ without lugs (more than 100 x 100mm)	- Use notch 6 x 6mm for 3.0mm Solid bed thickness
Marble/ Stone cladding	- Use notch 6 x 9mm for 5mm Solid bed thickness

MIXING

One kit of **ISOLITH-M** consist of 20 Kg powder and 5 kg liquid. First, put the liquid in a suitable mixing container, then add powder. Mix using a drill fitted with a paddle running at low speed until a uniform, creamy consistency is achieved. Apply immediately within the indicated open time.

FIXING

After mixing, apply **ISOLITH-M** on to the damp substrate using a plain trowel at a uniform bed. Using the notched side of the trowel, scrape the adhesive (refer to recommended trowel notches). Only as much material should be applied as can be covered within the indicated open time while adhesive is still tacky.

For marbles and large tiles (more than 100 x 100mm), apply additional adhesive on the back of each piece. This will ensure full bed and allow easy levelling. Always provide at least 2mm space around every tile.

Place tile on adhesive. Press down with a twisting motion until it feel solid. Beat tile with a rubber mallet or wood block to ensure proper bond and leveling. Excess adhesive shall be removed and cleaned from the surface of the tile with a wet cloth or sponge while the adhesive is still fresh. Allow adhesive to self-cure at least 24 hours prior to grouting with ISOJOINT tile grout.

NOTES

- ISOLITH-M** should not be used as a levelling course to correct excessive variations in perpendicularity or planeness of the substrate. Consult ACI.
- ISOLITH-M** is designed for fixing tile/marbles using the thin bed method. For thick bed method, consult ACI.
- Do not apply **ISOLITH-M** on a dry porous substrate. Substrate should be in a saturated surface dry conditions prior to application.
- ISOLITH-M** may cause slight staining of sensitive white marbles. Check first before using. If it does stain, seal the underside of the marble using AQUAPRUF (refer to separate brochure).

SHELF LLIFE

Twelve months from the date of manufacture stored under warehouse condition.

HEALTH AND SAFETY

Always wear protective coveralls and rubber hand gloves when handling. For further information, refer to separate MSDS.

PACKING/ COVERAGE

ISOLITH-M is packed in 25 Kg kit consisting of 20 Kg powder and 5 Kg liquid. Theoretical coverage are as follows.

Trowel Notch	Solid Bed Thickness	Theoretical Coverage/ Kit
3 x 3 mm	1.5 mm	10 Square meters
6 x 6 mm	3.0 mm	5 Square meters
6 x 9 mm	5.0 mm	3 Square meters

Revised: 26.02.2024

Technical information, data are to be considered as typical values and not sales specification. Actual measured values may vary due to factors beyond our control. Indications concerning function and application of the products are empirical. Although the information is believed to be accurate, there is no warranty by ISOLA. None of the recommendations becomes part of the warranted quality of the products. Due to the fact that the conditions of individual use are beyond ISOLA's direct and continuous control, ISOLA disclaims all responsibility in connection with the use of its products and does not warrant against any loss direct or consequential

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