

CAT No. ADH-06-2312

ISOLITH 100

Cementitious Tile Adhesive

ISOLITH 100 is a grey powder, cement-based adhesive used for permanent fixing of mosaic, porcelain, stone or ceramic tiles using the thin bed method. It only requires the addition of water to produce a water-resistant, high bond strength adhesive suitable for internal or external application.

APPLICATION

ISOLITH 100 is used to fix mosaic, porcelain, stone or ceramic tiles over concrete, masonry and bricks both internal and external applications, walls and floors.

ADVANTAGES

- High bond strength, excellent workability
- Water-resistant
- Extended open time: Tropical Grade formula
- Slip-resistant

SPECIFICATION

ISOLITH 100 conforms with the requirements of BS EN 12004-1: 2017, Class C2TE.

TYPICAL PROPERTIES

- Initial Tensile adhesion strength, BS EN 12004-2: 2017..... > 1 N/sq.mm
- Tensile adhesion strength after water immersion, BS EN 12004-2: 2017 > 1 N/sq.mm
- Tensile adhesion after heat aging, BS EN 12004-2: 2017..... > 1 N/sq.mm
- Extended open time at 30 minutes, BS EN 12004-2; 2017..... > 0.5 N/sq.mm
- Slip, BS EN 12004-2; 2017..... < 0.5 mm

DIRECTION FOR USE

Substrate must be clean, sound, and free from dust, dirt, loose paint, sealers, curing compounds, oil, grease etc.. New concrete and or plaster should be cured sufficiently and dimensionally stable so that no drying shrinkage or movement will occur. Control joints should be installed where tile abuts restraining structures such as walls, columns and directly over cold control joints in base concrete. Interior installations shall have control joints spaced a maximum of 7 x 7 meters and 6 x 6 meters for exterior areas. Surface to be tiled shall be dampened with water prior to application to prevent premature drying of adhesive due to absorption.

(Note: Pre-dampening is specially important when working on sun-exposed areas as this practice cools the surface at the same time saturating the surface voids.)

MIXING

Up to 6.75 kilogram of cool, clean water can be added to one bag (25 kg) of **ISOLITH 100**. First, put the required amount of water in a suitable mixing container (e.g. 20 liter pail), then add powder. Mix using an electric drill fitted with a paddle running at low speed (200-300 RPM) until a uniform creamy consistency is achieved. Allow to stand for 5 minutes, then remix. Apply immediately and fix tiles within the indicated open time. Small quantities can be mixed using 1 part water and 2-2.5 parts powder, by volume.

FIXING

Apply the adhesive with a trowel* on to the damp substrate using a scraping motion to work the material into good contact with the substrate. **ONLY AS MUCH MATERIAL SHOULD BE APPLIED AS CAN BE COVERED WITH TILE WITHIN 20-30 MINUTES WHILE ADHESIVE IS STILL TACKY.** For large tiles with lugs on the back, comb additional adhesive on the back of each piece. This will ensure full bed/ contact surface and allow easy levelling. Always provide at least 1.5-2 mm space around every tile. Place tile in adhesive. Press down until it feels solid. Beat tile with a rubber mallet or piece of wood block to ensure proper bond and levelling. As a general rule, excess adhesive should be squeezed-out from the joint filling the sides of each tile by one-third of the depth. Remove any excess adhesive on the tile surface with a wet cloth or sponge. Allow adhesive to self cure for at least 24-hours prior to grouting with ISOJOINT or ISOLITH EP tile grout.

(Note* : Use V-notch trowel for small tiles and square notch trowel for big tiles).

PACKING / COVERAGE

ISOLITH 100 is packed in 25 kg paper bag and when mixed with 6.75 kg of water will approximately cover 5-10 sq. meters at 6mm and 3mm notched thickness.

SHELF LIFE

Twelve months when stored in dry, covered warehouse condition. Some lumps may occur due to warehouse set. These should be screened and removed.

HEALTH / SAFETY

Cement may cause slight skin irritation when wet. Avoid inhaling powder. Use dust mask and gloves. Skin contamination should be washed with water and soap. Refer to MSDS for more safety instructions.

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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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