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BIGUM (Single-component cementitious mortar)

technical data sheet

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Approval of the use of the BIGUM product as a waterproofing product by "Agence de Controle Technique International APAVE" with protocol N.Ref:MMF/KCF. Affaire 37/2014

1. IDENTIFICATION OF THE SUBSTANCE/COMPANY

Trade name: BIGUM (one-component flexible waterproof cementitious mortar) Manufacturer : Cimar Produzione Surl with plant in Salerno (Italy)at via Mecio Gracco 8H/8I. Telephone number also for urgent calls: Tel +39 089 302418

2. CHARACTERISTICS AND USES

Bigum is a cementitious mortar with elavated impermeability and flexibility. It is used for the realization of waterproof coatings such as terraces, swimming pools, balconies and all environments subjected to the deteriorating action of water, before the application of tiles. It is also suitable for protecting concrete and masonry structures. It is easy to prepare, as it only requires mixing with water. Application examples: Waterproofing concrete tanks for containing water. Waterproofing of bathrooms, showers, balconies, swimming pools before laying ceramic tiles Waterproofing plasterboard, plaster or cement surfaces and lightened concrete blocks Levelling of concrete structures Protection against water and aggressive agents of cracked plasters and concrete

Waterproofing of concrete surfaces that may come into contact with sea water

Bigum's adhesion is excellent on all concrete, masonry, ceramic and marble surfaces provided they have been perfectly cleaned.

3. PRODUCT IDENTIFICATION CHARACTERISTICS

Appearance: light grey powder Apparent density: $1,2 \pm 0,2 \text{ kg/dm}^3$ Grain size: 0-0.3 mm Water for the dough: from 16-20 % to obtain a more or less fluid mortar. Mass of dough: 1.7 kg/Lt Application temperature: from +5 to +30 °C Working time of the dough: about 60 min. Curing time: 5-6 hours from mortar preparation Water resistance (DIN 1048): after 28 days at 1.5 Positive hydrostatic pressure bar: withstands Adhesion to concrete according to EN 1542, after 28 days at 20°C and 50% R.H. (N/mm2): 1 Adhesion to concrete according to EN 1542, after 7 days at 20°C and 50% R.H. (N/mm2): 0.7 Elasticity according to DIN 53504 expressed as elongation, after 30 days at 20°C and 50% R.H.: 25

4. PREPARATION

Pour 16 to 20% of clean water into the powder mixture. Add the water gradually, under very slow stirring with a drill (max. 500 rpm), until a homogeneous, lump-free mortar is obtained. Amount of water for the various packages: pack of 15 Kg: add 2.5 to 3 Kg of water to obtain a more or less fluid mortar.

5. CONSUMPTION

Approx. 1.5 kg/m² for a thickness of 1 mm per coat. Two hands are recommended. Do not exceed two millimetres in thickness

6. INSTRUCTIONS FOR STORAGE

The product fears humidity. Storage temperature: 5 to 30 °C. Stability in original packages : 12 months Packing : 15 kg

7. APPLICATION

Apply with a flat spatula creating a thickness not exceeding 1 mm per coat. For deformable surfaces or surfaces subject to structural movements, place a 4×4 mm square mesh of fibreglass or synthetic fibreglass mesh after the first coat, which is still fresh. Once the product has hardened (about 5-6 hours), spread the second coat in a cross direction with the first one.

8. SUPPORT FOR THE APPLICATION

The floors to be covered must be roughened and have an excellent background cleaning. To waterproof concrete surfaces: remove any traces of dust and grease by washing with pressurised water; it is preferable that the surfaces to be treated and cleaned first be dampened with water. Use a rubber tape with felt to waterproof control joints, horizontal and vertical connections. Apply a thin layer of at least 1 mm of Bigum to the sides of the edges and joints that are to be waterproofed. Dip the tissue part of the tape onto the fresh Bigum layer using a spatula. In the case of joints (e.g. in terraces), the tape must be positioned in their seat so that it forms an omega. Omega positioning of the rubber tape Positioning for waterproofing of inside the expansion joint hydraulic drains 90° and 270° angular positioning Positioning of special T-piece and special cross piece

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