

Waterproofing of ducts and accessories for hydraulic works

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APPLICATION DATA SHEET

Waterproofing of ducts sections and accessories for hydraulic works, by:

1. preparation of the substrate;
2. waterproofing.

1) PREPARATION OF THE SUBSTRATE

Refer to the Application Data Sheet "Preparation of substrates to be waterproofed" (LV80) for what concerns the cleaning of the substrate; preliminary controls; preparation of the substrate; and control and restoration of joints and connecting gutters.

2) WATERPROOFING

On the surface to be waterproofed, clean, sound and wet, lay mesh **Kimitech 350**, overlapping the sheets for a 10 cm length.

Soak the mesh by applying, with a trowel, mortar **Betonfix 300**, mixed with 35% by weight of **Kimitech ELASTOFIX** with a mortar consumption of about 1,5 kg/m².

In order to prepare the mixture, stir the product for about 5 minutes with a cement mixer or, in case of small quantities, with drill and whisk. Add 3/4 of **Kimitech ELASTOFIX** and then, gradually, the remaining product until you get the right consistency. Once obtained a homogeneous mixture free of lumps, make it rest for 10 minutes.

After the curing of the first layer, not before 24 hours have passed, apply with a trowel a second layer of mortar **Betonfix 300** mixed with 35% by weight of **Kimitech ELASTOFIX** with a mortar consumption of about 2 kg/m².

Note

The basic legislative reference, still valid today, relating to materials intended to come into contact with drinking water is the DM'73. The DM'73 indicates the verification methods (global and / or specific assignment) and the list of materials that may come into contact with drinking water (there are no cement products among the materials provided). A subsequent Ministerial Decree (174/04) allowed the use of cement products. But its provisions are "applicable to the materials making up the pipes, fittings, gaskets and accessories". However, there are manufacturers that promote the use of cementitious materials also for waterproofing tanks, taking advantage of

the ambiguity provided by Article 1 of Ministerial Decree 174/04 (based on which it would seem that the standards refer to all fixed collection and water distribution systems). They do not ensure compliance with the law, and in the case of water pollution, there are criminal consequences for the designer, the applicator and the manufacturer.