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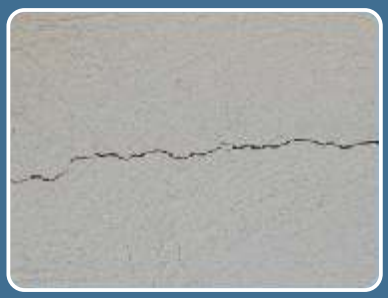
WATERPROOFING OF EXTERNAL WALLS

THE PROBLEM

External facade walls, besides providing aesthetics to the construction, must also protect the building from rain water and humidity. Cracks to plasters, low quality colours or highly absorptive surfaces enable water to penetrate. Moisture problems can appear as damaged colour or even total crumbling of plaster. The right solution to such problems must be a permanent and durable to time solution.

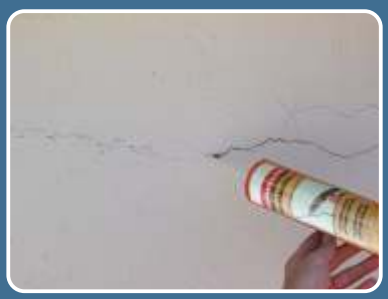
SEALING OF SINGLE CRACKS ON PLASTERS



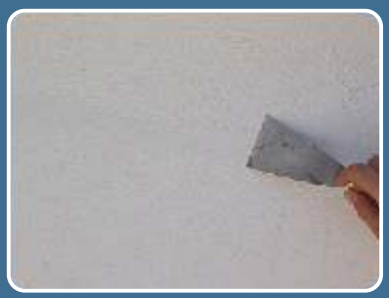
Water can penetrate wall even from a single crack.

Wherever it is required, the crack is opened with a spatula in a width of 3mm.

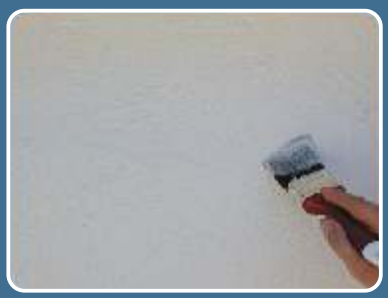
Crack should be thoroughly cleaned from dust.



The crack is sealed with elastoplastic acrylic sealant **ISOMASTIC-A**.



While the sealant is fresh it is formed with a spatula.



After **ISOMASTIC-A** has dried, the crack is painted with **FLEXCOAT** along its length.

MATERIALS

- **ISOMASTIC-A** Elastoplastic acrylic sealant
- **FLEXCOAT** Highly elastic acrylic waterproofing coating

WATERPROOFING AND COLORING OF TOTALLY CRACKED PLASTERS

Extended cracks to plaster out of being an aesthetical problem, may sometimes also be dangerous for the plasters durability against water and freeze.

Substrate should be thoroughly cleaned from dust etc.

The surface is primed with **FLEX-PRIMER**. Especially when the plaster is crumbling, **FLEX-PRIMER** stabilizes it.

After drying, the surface is painted with a layer of **FLEXCOAT**.

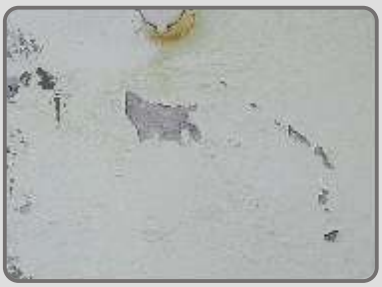
In cases of multiple cracks, the first layer of **FLEXCOAT** is reinforced, while it is still fresh, with the polyester fabric **(TREVIRA,** 100 cm width**).**

Two more layers of **FLEXCOAT** should be applied in order to cover the polyester fabric **(TREVIRA)**. Without using **TREVIRA** one layer of **FLEXCOAT** is enough.

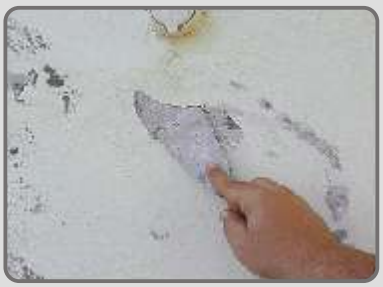
MATERIALS

- **FLEXCOAT** Highly elastic acrylic waterproofing coating (consumption: 150 ml/m^2/layer or totally 300 ml/m^2)
- **FLEX-PRIMER** High quality acrylic water-based primer (consumption: 100-200 g/m^2)
- **TREVIRA** Polyester cloth for reinforcing waterproofing layers

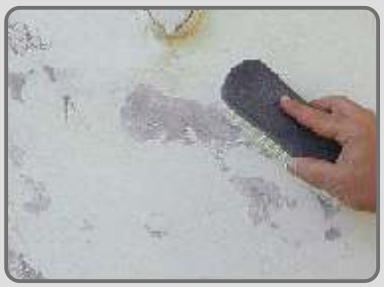
WATERPROOFING AND COLOURING OF PLASTERS WITH DAMAGED COLOUR



Damaged colour is the first indication that the plaster is corrupted from water.

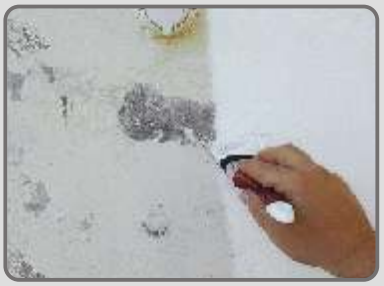


Old colour should be scratched with a spatula and the loose particles should be removed.

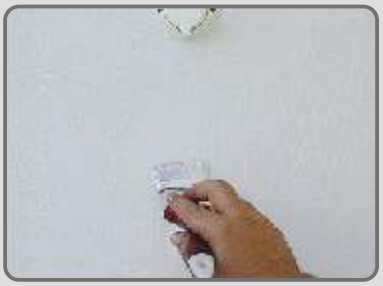


Substrate should be thoroughly cleaned from dust etc.

The surface is primed with **FLEX-PRIMER**.



After drying, the surface is painted with two layers of **FLEXCOAT**.



The 2nd layer of **FLEXCOAT** is applied after the first one has completely dried.

MATERIALS

- **FLEXCOAT** Highly elastic acrylic waterproofing coating (consumption: 150 ml/m^2/layer or totally 300 ml/m^2)
- **FLEX-PRIMER** High quality acrylic water-based primer (consumption: 100-200 g/m^2)

WATERPROOFING AND COLORING OF CRUMBLING PLASTERS

Crumbling plasters are a common phenomenon for walls with moisture problems.

The crumbling particles are removed with a spatula and the surface is thoroughly cleaned from dust.

The surface is primed with **FLEX-PRIMER** and the surface is stabilized.

The plaster is fixed with the repairing mortar **UNICRET-FAST**, improved with the resin **ADIPLAST**.

After the plaster has been sufficiently set it is smoothed by hand with a spongy float.

As soon as the plaster has dried, the surface is primed again with **FLEX-PRIMER**.

Finally, the surface is painted with two layers of **FLEXCOAT**.

MATERIALS

- **FLEXCOAT** Highly elastic acrylic waterproofing coating (consumption: 150 ml/m^2/layer or totally 300 ml/m^2)
- **FLEX-PRIMER** High quality acrylic water-based primer (consumption: 100-200 g/m^2)
- **UNICRET-FAST** Fast-setting, white repairing mortar (consumption: 15 kg/m^2/cm)
- **ADIPLAST** Polymer latex for the improvement of mortars

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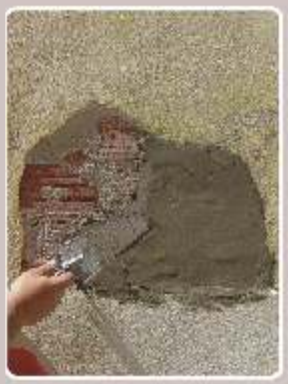
WATERPROOFING AND COLORING OF CRUMBLING PLASTERS

The humidity of the plaster is so intense that the plaster has crumbled till the masonry.

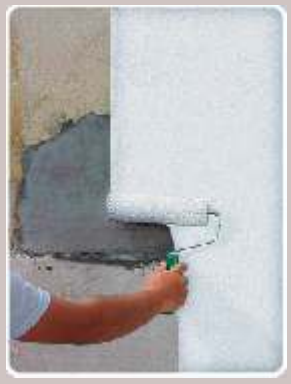
Primarily, all the crumbling parts of plaster and the dust are thoroughly cleaned.

Then the surface is primed and stabilizised with **FLEX-PRIMER**.



For the repairing it is used the polymer modified cement mortar **DUROCRET**.

After 7 days and when **DUROCRET** has dried the surface is primed again with **FLEX-PRIMER**.

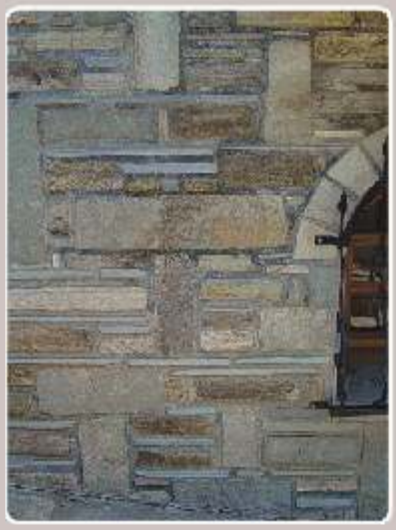


Finally, the surface is painted with **FLEXCOAT** in two layers.

MATERIALS

- **FLEXCOAT** Highly elastic acrylic waterproofing coating (consumption: 150 ml/m^2/layer or totally 300 ml/m^2)
- **FLEX-PRIMER** High quality acrylic water-based primer (consumption: 100-200 g/m^2)
- **DUROCRET** Polymer-modified cement mortar (consumption: 15 kg/m^2/cm)

WATERPROOFING OF WALLS COVERED WITH NATURAL STONES AND DECORATIVE OVERLAYS



Walls covered with natural stones or decorative overlays need waterproofing without loosing their initial appearance.

The surface should be thoroughly cleaned from dust etc. Any cavities in joints are filled in with **DUROCRET**.

PS-20 is applied with brush, roller or spray. Two layers are usually sufficient. The second layer is applied once the first layer has completely dried.

PS-20 has penetrated the pores of the surface without changing its appearance.

MATERIALS

- **PS-20** Colourless water-repellent impregnation (consumption: 0.2-0.4 lit/m^2)