

# Micropruf

## *Osmotic, non-toxic waterproofing*

### The product:

Micropruf is a pre-mixed compound containing cement binders, chemical additives and inert silicates in an appropriate grading curve. If applied with the consistency of a slurry, Micropruf makes a continuous layer with structural and superficial waterproofing characteristics. The structural waterproofing characteristic is obtained by osmosis: the electro-chemical peculiarity of the high potential product ( Microcem hermetic ) is transferred to the low potential substance ( the support treated ) causing crystallization of the wall porosity that stops the passage of water. Surface waterproofing is the result of the wet-proofing charges in the Microcem mixture. The non-toxic nature of this product is certified, so that it may be used for receptacles intended to contain drinking water.

### Advantages:

- It allows effective waterproofing in positive and negative water thrust.
- It is root penetration resistant and abrasion resistant.
- Inorganic and therefore unalterable over time.
- Suitable to be in contact with drinking water (non-toxic certificate)

### Field of application:

Applicable on any kind of structure suitable to contain water, such as aqueducts, swimming-pools, tanks, ducts, piping and containers.

### Suitable supports:

Concrete, resistant sand and cement plasters.

### Information data of the product:

|                                   |                    |
|-----------------------------------|--------------------|
| ▪ Containers                      | 25 kg bags         |
| ▪ Appearance                      | grey cement powder |
| ▪ Specific weight                 | 1.7 kg/l           |
| ▪ Granulometry                    | < 0.6 mm           |
| ▪ Average consumption for 2 coats | 2 kg/sq m          |

### Application:

#### Preparation of the supports :

The surfaces must be solid and clean. Any traces of oils, greases or wax or loose parts, spacing rods, honey-combs, plugs and discontinuous casting must be removed. All holes and irregularities in the supports should be filled with anti-shrink fibre-reinforced mortars ( Promalt-Prorip). On vertical and horizontal corners a 10 cm angle joint should be made using a fibre-reinforced mortar with high mechanical resistance (Promalt-Prorip ) to connect the sides.

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### Method of application:

Moisten the surfaces that are to be treated; be careful to repeat the operation if the supports are very absorbent or the temperature is high. Mix Micropruf in about 6 l of clean water for every 25 kg bag, until a slurry mixture is obtained. The product must then rest for approx 10 minutes. Briefly re-mix and apply Micropruf using a flat brush. The second coating is applied when the first one starts to set ( not sticky when touched )

### Technical data:

|                                          |                                                             |
|------------------------------------------|-------------------------------------------------------------|
| ▪ Resistance coefficient to water vapour | $\mu > 60$                                                  |
| ▪ Water in the mixture                   | approx 26%                                                  |
| ▪ Maximum applicable thickness           | 2 mm                                                        |
| ▪ pH                                     | 11.5                                                        |
| ▪ Pot life                               | > 1                                                         |
| ▪ Resistance to water counterthrust      | > 0.4 MPa                                                   |
| ▪ Compression resistance after 28 days   | 18 MPa                                                      |
| ▪ Adhesion to concrete after 28 days     | 1 MPa                                                       |
| ▪ Usage temperature                      | + 5° C / + 35 ° C                                           |
| ▪ Storage                                | 12 months if kept in original containers and in a dry place |
| ▪ Equipment                              | drill mixer, flat brush.                                    |

### Please note:

To avoid the forming of condensation it is suggested that at least 1.5 cm of transpiring plaster ( such as Macromur ) be applied on MICROPRUF when not completely dry.

Do not apply the product on overheated surfaces or in presence of strong wind or bright sunlight

Do not apply on frozen supports or where there is a chance of intense cold within 24 hours of application

Protect the treated surfaces from heavy rain or strong sunlight for 24 hours after application

When it is planned to cover with plaster a rendering coat should be applied using sand, cement and Microlat on Micropruf when it is still wet.

Do not apply on painted surfaces or resins or bituminous covering.

Do not use as a sheath for waterproofing roofs or terraces

As an additive to Micropruf use Microlat latex for application to smooth concrete.

All the above data relate to tests carried out in a controlled environment, and are therefore liable to change when the product is used.