

Retroactive horizontal barriers



AQUAFIN®-i380

Injection cream for retroactive horizontal barriers

Problems solved.



Retroactive horizontal barriers **AQUAFIN®-i380**

AQUAFIN-i380 is a guaranteed solution for sequentially applied horizontal barriers. This new silane-based injection cream requires no pressure when applied to prevent rising dampness in masonry works by inducing a "hydrophobic" property in the injected substrate.

AQUAFIN-i380 functions at moisture saturation levels up to 95% when tested in accordance with WTA work sheet 4/4/04 (Injection of Masonry Works Against Capillary Rising Dampness).

Classic "silicifying" injection products can only be applied with pressure when moisture saturation levels exceed 60% whilst AQUAFIN-i380 is entirely effective when applied without the use of pressure even when saturation levels reach 95%.



Technical Data

| | |
|----------------------------------------|------------------------------------------|
| Basis | Silane |
| Consistency | creamy |
| Colour | white, transparent once dry |
| Specific gravity | approx. 0.9 g/cm ³ |
| Active ingredient content | approx. 80 % by weight |
| Substrate / application temperature | +5°C to +30°C |
| Packaging | 12 x 550 ml sausage/box and 5 l packs |
| Storage | 12 months in original unopened packs |



Properties

- Ready to use
- Solvent-free
- Hydrophobic
- Excellent penetration
- Prevents "capillary water" migration
- Simple and effective application
- WTA approved; even when moisture saturation levels reach 95%



Advantages

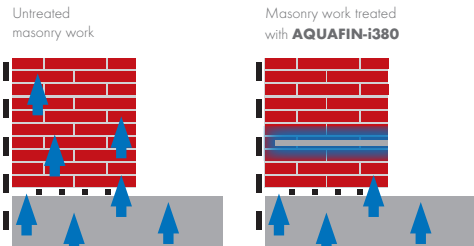
- Excellent dispersion
- Creamy consistency prevents flow into cracks, cavities or voids
- Applied without pressure; simply extrude from a barrel type gun
- May also be mechanically applied using low pressure
- No dilution or pre-mixing necessary
- Quantities easily calculated

Remove old damaged render, paints or coatings from the substrate up to a height of 80 cm above the neighbouring area of damage either visibly or through examination. Rake out crumbly pointing to a depth of 2 cm deep and mechanically clean the area. To replace masonry joints we recommend THERMOPAL-GP11. Where using low pressure equipment, we recommend blocking the injection area with AQUAFIN-1K.

How does **AQUAFIN®-i380** work?

Classic “silicifying” injection products can only be applied with pressure when moisture saturation levels exceed 60% whilst AQUAFIN-i380 is entirely effective when applied without the use of pressure even when saturation levels reach 95%.

Due to its special composition, the molecular size of the active ingredient is much smaller than classical products. It also does not react with water, but solely with the substrate. The “hydrophilic nature” (great affinity for water) of the active ingredient means quicker dispersion in the capillary water and eventually leading to the so-called “self-injection” property, achieving 100% saturation of the pores. After reacting with the substrate, the capillary walls become hydrophobic and rising water or dampness due to osmotic pressure (absorption of water in the capillaries) is prevented leading to the eventual drying out of the substrate which also becomes water repellent.



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