



Technical Data Sheet

AQUAFIN®-SulfatFEST

Art.-No. 2 04214

Sulphate resistant mineral-based waterproofing slurry

Properties:

- Rigid waterproofing slurry, hydraulic setting.
- Resistant to high levels of sulphate.
- Suitable for all sound conventional construction. substrates also under negative pressure.
- Can be sprayed with suitable equipment, brushed by hand or trowelled.
- Easy efficient application.
- Bonds without priming to matt damp substrates.
- Vapour permeable, resistant to frost and ageing.
- General building regulations certificate is available.

Areas of application:

Exterior waterproofing of building elements in contact with the ground. Interior waterproofing and also retrospective waterproofing against water penetrating from the outside. Used on walls and floors in water storage containers, waste water storage and channels, dams and sluices. Retrospective work on substrates not liable to cracking or without movement. Especially suitable for the renovation of sulphate damaged wall and floor surfaces. Suitable in water storage containers with a water hardness degree $> 3^{\circ} \text{dH}$. With regard to the aggressiveness of the concrete reference to the designation in the part of DIN 4030 dealing with lime soluble carbonic acid is necessary.

Technical Data:

Basis:	Sand/cement, polymer modified
Density of the mixed mortar:	1.94 kg/l
Mixing:	25 kg AQUAFIN-SulfatFEST to 6.5 – 7.0 litres water
Mix time:	approx. 3 minutes (drill mixer 500–700 rpm)
Pot life:	approx. 60 minutes
Application/ Substrate temp:	+ 5 °C to + 30 °C

Consumption:	1.5 kg/m ² /mm dry film thickness. Greater material consumption on uneven substrates is not accounted for with water whilst material is in the wet state. Dried material is difficult to remove
Cleaning of tools:	12 months when stored dry in the original unopened packaging. Use opened packaging immediately.
Storage:	from rain after approx. 3 hours from foot traffic after approx. 1 day from water pressure after approx. 7 days
Ready for load *):	

*) at +20 °C and 60% relative humidity

Surface preparation:

The substrate to be waterproofed must be sound, largely flat and free from cavities, cracks and ridges and free from oil, grease, bitumen or other materials which prevent adhesion. Remove cement films and loosely adhering components. It may be necessary to dampen the substrate. Areas of damage and gravel pockets should be levelled with a suitable mortar. Avoid surface standing water during the application and setting process. Substrates with large pores result in greater material consumption.

Product preparation:

Pour 6.5–7.0 litres of clean water into a clean mixing bucket and with mechanised stirring (drill with paddle approx. 500–700 rpm) add sufficient dry powder until a lump free brushable or sprayable consistency is achieved. Application can be by brush, spray or trowel in a minimum of 2 coats with a maximum consumption of 2 kg/m²/coat on the prepared area to be waterproofed.

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The second or further coats should only be carried out when the previous coat will not become damaged by further applications. We recommend that the waterproofing measures in the WTA (Association for science and technology) information sheet 4-6-05/D are carried out. Minimum dry film thickness 3 mm with a consumption of 4.5 kg/m² when under standing seepage water/hydrostatic pressure.

Important advice:

- Keep the surface damp for a minimum of 24 hours after the coating has hardened.
- Protect the fresh coat from rain, frost and direct sunlight.
- Dampen very dry backgrounds before commencing work.
- Prime very porous backgrounds such as aerated concrete or gypsum-based backgrounds to improve adhesion with ASO-Unigrund.
- The temperature of the air, material and background may not drop below + 5 °C during product application and for a week afterwards.
- Protect areas not to be treated from the effects of AQUAFIN-SulfatFEST.
- A sound substrate is a prerequisite for a durable bond between substrate and waterproofing compound. Bond inhibiting and bond damaging substances must be completely removed. High pressure washing (> 400 bar), highest pressure washing (up to 2000 bar) and mechanical abrasion are suitable methods of background preparation. The final cleaning operation must be with pressure washing.
- In water containers temperatures mostly around +10 °C to +15 °C are to be encountered. In order to guarantee complete hydration of the cement the coating must be kept damp for an adequate length of time (constant relative humidity of > 80 %) and protected from drying out. For this purpose 7 days generally suffices. It is fundamental to avoid the

formation of condensation or standing films of water on the waterproof coating during this time following application. Where there is danger of dropping below the dew point (condensation formation) use dehumidifiers until the mortar has cured. Uncontrolled warm air should never be blown in.

Please observe a valid EU safety data sheet.

GISCODE: ZP1