

Technical Datasheet Specialty Additive

Description

ELOTEX® SEAL80 is a highly efficient hydrophobizing and water repellent additive in powder form (white colour) for cementitious mortars. It improves the water resistance and durability of cementitious based products. ELOTEX® SEAL80 is especially recommended where water repellency and bulk hydrophobizing properties are expected.

ELOTEX® SEAL80 functions chemically, protecting both surface and bulk of cementitious based building mortars and products against water penetration.

ELOTEX® SEAL80 has been developed for mortars, jointing compounds and building products. ELOTEX® SEAL80 is easy to mix during production of cementitious based dry mix products. It has a linear dosage, with which the desired level of water resistance can be easily adjusted. By mixing with water it does not delay drymix wetting and does not show any foaming or retardation. There is also no negative effect on surface hardness, adhesion strength and compressive strength.

ELOTEX® SEAL80 is fully efficient in alkaline medium, typically a pH of 11 -12.

Technical Specifications

Composition	Silane-based additive
Appearance	Free-flowing white powder
Odour	none
Active Material	Alkyloxysilane
Bulk Density	200 – 400 g/l
Particle Size	120 µm
Residual Moisture	< 2.0%
pH-Value	7.0 – 8.5 (as 10% solution in water)
Storage Stability	6 months



ELOTEX® SEAL80

Benefits

- Water repellent and bulk hydrophobizing additive in powder form for cementitious
- Significant reduction in water uptake
- Increased durability of cementitious building materials
- Linear dosage efficiency
- Reduced dosage
- Excellent wetting and mixing properties
- Excellent workability
- Maintain product performance over time
- Long term storage stability
- Formulation reliability – Quality consistency
- Formulation latitude
- No change on physical properties
- Free flowing and non dusting powder
- Compatible with other additives

Recommended Applications

Special additive for

- waterproofing mineral
- cement-based mortar systems
- ideally suited for plasters, renders, joint fillers, sealing mortars/slurries

Basically wherever a high degree of hydrophobicity is required with cement-based mortar systems.

Guidelines for use

Powder Processing

ELOTEX® SEAL80 can be mixed with other dry additives in all standard compulsory type mixers to produce cement-based finished products in powder form.

Major temperature increases due to high shear forces should be avoided. All hydraulically and non-hydraulically curing dry mixtures with ELOTEX® SEAL80 may be easily mixed with water before application. For mixing finished products in powder form, one usually places the required amount of mixing water in a suitable vessel and add the powder mixture under agitation. Too intensive agitation of the mixture may result in unwanted air inclusion. Before application, one should allow the mixture to stand for a short time. Depending on the properties of the other additives, the standing time will be in the range of approx. 1-5 minutes.

Dosage and Mixing

The amount of ELOTEX® SEAL80 to be used is between 0.2 and 1.0% (dry) depending on the ultimate requirements on the product. As short a mixing time as possible is recommendable.

Compatibility

ELOTEX® SEAL80 is compatible with all standard mortar additives such as redispersible polymer powders, accelerators, retarders, cellulose ethers etc.

Quality, Safety and Environment

We recommend all individuals using ELOTEX® powder, or coming in contact with it, to observe the separate Safety Data Sheets. Our safety specialists will be pleased to advise you regarding safety, health and environmental issues of our products. Akzo Nobel Chemicals AG has been certified according to DIN EN ISO9001 and DIN EN ISO 14001.

Packaging, Storage and Handling

Standard packaging: 10/15 kg paper sacks with polyethylene liners.

Other types of packaging such as Big Bags are possible on request.

As a basic rule it is recommended to store ELOTEX® polymer powder in a dry location at temperatures below 25°C and to process within six months. Sacks that are stored under pressure, damaged or left open for an extended period tend to cause blocking of the polymer powder.

Product Liability

The above information and recommendations are based upon our experience and are offered merely for advice. They do not absolve the consumer from making his own tests. Akzo Nobel Chemicals AG, their representatives or distributor organizations have no control over the conditions under which ELOTEX® powders are transported, stored, handled or used. Responsibility for damage arising from the use of our products cannot be derived from the recommendations given. The observance of any intellectual property rights of third parties is the responsibility of the consumer in each case.

Technical information may not be passed on to any third party without our previous consent.

Other Information

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