

## Technical Datasheet Specialty Additive

### Description

ELOTEX<sup>®</sup> SEAL200 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<sup>®</sup> SEAL200 is especially recommended where water repellency and hydrophobizing properties are expected.

ELOTEX<sup>®</sup> SEAL200 functions chemically, protecting both surface and bulk of cementitious based building mortars and products against water penetration.

ELOTEX<sup>®</sup> SEAL200 has been developed for gypsum based plasters, mortars, jointing compounds, anhydrite screeds and building products. ELOTEX<sup>®</sup> SEAL200 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.

To be fully efficient, ELOTEX<sup>®</sup> SEAL200 needs to be activated 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	300 – 500 g/l
Particle Size	80 µm
Residual Moisture	< 2.0%
pH-Value	7.5 – 9.5 (as 10% solution in water)
Storage Stability	6 months

### Guidelines for use

#### Powder Processing

ELOTEX<sup>®</sup> SEAL200 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<sup>®</sup> SEAL200 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.

## ELOTEX<sup>®</sup> SEAL200

### Benefits

- Water repellent and bulk hydrophobizing additive in powder form for cementitious
- Significant reduction in water uptake
- Increased durability of gypsum building materials
- Linear dosage efficiency
- Reduced dosage
- Excellent wetting and mixing properties
- Excellent workability
- Maintain product performance over time
- Long term storage stability
- Reduced susceptibility to dirt
- 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.

**Dosage and Mixing**

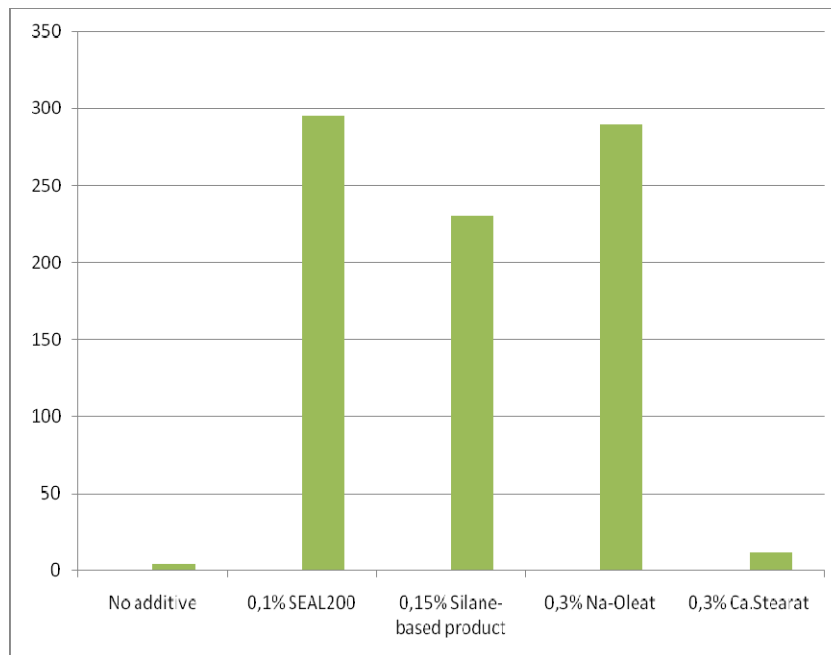
The amount of ELOTEX® SEAL200 to be used is between 0.1 and 0.3% (dry) depending on the ultimate requirements on the product. As short a mixing time as possible is recommendable.

**Compatibility**

ELOTEX® SEAL200 is compatible with all standard mortar additives such as redispersible polymer powders, accelerators, retarders, cellulose ethers etc.

**Test Results**

Penetration time (in minutes) of 0.5 ml of water on a grout formulation containing different hydrophobic agents.

**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. Elotex has been certified according to DIN EN ISO9001 and DIN EN ISO 14001.

**Packaging, Storage and Handling**

Standard packaging: 15 kg paper sacks with polyethylene liners.

Store in original packaging.

As a basic rule it is recommended to store Elotex powders in a dry location at temperatures below 25°C and to process within six months after receipt of the delivery. Sacks that are stored under pressure, at increased temperature, damaged or left open for an extended period, increase the risk of caking of the 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. Elotex 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**

Version	5 / 1.9.2010
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