

ELOTEX® SEAL81

Technical Data Sheet

Effective Date: 11.04.2022

Characteristics

ELOTEX® SEAL81 is an encapsulated silane in powder form. The active ingredient of ELOTEX® SEAL81 is released when the mortar is mixed with water, and it subsequently binds covalently to the inorganic mortar matrix.

Industries

ELOTEX® SEAL81 is a raw material for building and construction industry, such as ready-mixed dry mortars. It is used as an organic additive in the formulations of:

- Tile grouts (cement-based)
- Repair mortars
- Renders (cement and lime-based)
- Cementitious waterproofing membranes (rigid, one-component)

For any additional application, please contact our local consultant.

Why ELOTEX® SEAL81?

- Outstanding water-repellent properties on the surface and in mass of cementitious mortars
- Good pearl effect
- Low water uptake
- Long-term mortar durability
- Excellent wetting and mixing properties
- Easy to dose with low dust formation
- Long lasting shelf life
- Fully efficient in alkaline mediums at pH > 10

Performance may vary depending on your formulation. Please contact our Application Technology Group to assist you.

Dosage, Mixing and Compatibility

The usual dosage of ELOTEX® SEAL81 is between 0.2 and 1.0% (weight % on dry mortar). Prolonged mixing time during dry mortar production should be avoided.

ELOTEX® SEAL81 is compatible with standard mortar additives, such as redispersible polymer powders, accelerators, retarders, cellulose ethers etc.

Characteristics	
Composition	Silane-based additive
Active material	Alkyloxysilane
Appearance	Free-flowing, white powder
Odour	None

Specification	Adjusted Methods*	Value
Bulk Density	EN 543	650 – 850 g/l
Residual moisture	Specific method	max 2.0 %
pH value (10 % redispersion in water)	Specific method	9 – 11

* Standard adjusted to Celanese test method. Further details regarding the test method can be made available on request.

Guidelines for Storage, Handling and Powder Processing

Store ELOTEX® powder in a cool, dry place in original packaging at temperatures not exceeding 25 °C and process within six months after the date of delivery. Avoid storing ELOTEX® powder under pressure, in damaged sacks, in contact with moisture or heat, or in sacks left open for an extended period, as this may result in blocking of the powder. If the product is stored for longer than six months after the date of delivery, users are advised to evaluate properties required for the intended use.

ELOTEX® SEAL81 can be blended in all commercial mixers with other dry additives to produce cement-based finished products in powder form. Significant temperature increases caused by strong shear forces should be avoided. All hydraulically and non-hydraulically curing dry mortars used with ELOTEX® SEAL81 can be easily mixed with water before application.

Packaging and Transport

Standard packaging: 25 kg paper sacks with polyethylene liners. Other types of packaging, such as Big Bags, are available on request.

Product Safety, Regulatory Status and Environmental Protection

Please employ the usual protective measures while handling ELOTEX® powders. Further product safety or regulatory information can be obtained from our safety data sheets at celanese.com/sds-search.

As of its effective date, this Technical Data Sheet supersedes and is in lieu of all former Technical Data Sheets of ELOTEX® SEAL81.

This information is based on our present state of knowledge and is intended to provide general notes on our products and their possible uses. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. It should therefore not be construed as an expressed or implied warranty of specific properties of the products or for its suitability for a particular use. Any existing industrial property rights must be observed. The quality of our products is governed by our General Conditions of Sale. In every case we urge and recommend that purchasers before using any product in full scale production make their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purposes under their own operating conditions. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

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