

Technical Datasheet Specialty Additive

Description

ELOTEX[®] ERA100 is a highly active, efflorescence reducing additive in powder form based on natural resin technology.

ELOTEX[®] ERA100 is designed as specialty additive for cement based building plasters, renders and mortars. It eliminates or drastically reduces the occurrence of primary efflorescence.

ELOTEX[®] ERA100 is especially recommended for the use in tile grouts, renders, such as one coat renders (monocouche) or skim coats (putty), floor leveling compounds, brick layer mortars or stone / tile imitation mortars.

ELOTEX[®] ERA100 works as a multifunctional additive with several efflorescence preventing mechanisms such as reduction of capillary connectivity and size reduction of efflorescence forming crystals. It maintains the aesthetics of building materials over time.

ELOTEX[®] ERA100 works excellent against the problem of primary efflorescence, caused due to the free lime release in the mortar formulation which emigrates to the wet surface in case of a slow setting formulation or low temperature and high humidity environment conditions.

Furthermore ELOTEX[®] ERA100 can reduce also secondary efflorescence, caused after some time due to the release of free salts in the base structure or from the mortar. Besides reducing the problem of efflorescence ELOTEX[®] ERA100 improves the mortar stability, workability and acts also as a dispersing / wetting agent and improves the colour stability and brightness.

ELOTEX[®] ERA100 is free of plasticisers, solvents and film-forming agents.



ELOTEX[®] ERA100

Benefits

- Efflorescence reducing additive in powder form for cement based building mortars
- Colour stability improvement
- Colour brightness improvement
- Eliminates or drastically reduce the occurrence of primary efflorescence
- Suitable for secondary efflorescence
- Maintains the aesthetics of building materials over time
- High efficiency
- Compatible with other additives
- Excellent mixing and wetting properties
- Excellent workability
- Improved mortar rheology
- Dispersing and wetting properties

Recommended Applications

- Tile grouts
- Base coat renders / plasters
- One coat renders (monocouche)
- Decorative texture renders / plasters
- Skim coat (Putty, Feather Finish, Satin...)
- ETICS or EIFS composite mortar
- Floor levelling compounds
- Floor screeds
- Stencil mortar
- Stone imitation mortars
- Brick layer mortars

Technical Specifications

Composition	Chemically modified natural rosin
Appearance	Free-flowing yellowish powder
Odour	Characteristic
Bulk Density	350 – 550 g/l
Particle Size	< 250 µm
Residual Moisture	< 2.0 %
pH-Value	6.0 – 8.0 (as 10% solution in water)
Storage Stability	6 months

Guidelines for use

Powder Processing

ELOTEX® ERA100 can be mixed with other dry additives in all standard compulsory type mixers to produce cement-based finished products in powder form.

ELOTEX® ERA100 provides excellent and rapid homogenization without irritating dust formation. Major temperature increases due to high shear forces should be avoided. Depending on the properties of the other additives and mixer, the standard mixing time will be in the range of approx. 1 to 5 minutes.

Dosage and Mixing

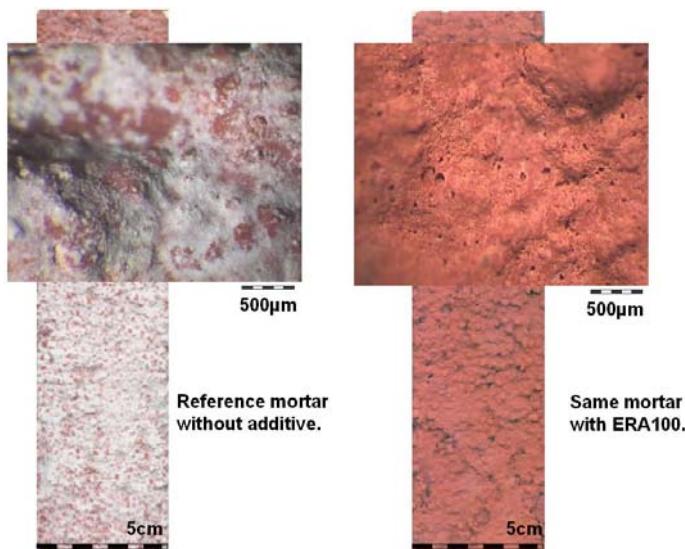
ELOTEX® ERA100 is highly efficient and easy to mix with water. It does not delay mortar wetting.

Typical dosages of ELOTEX® ERA100 in cementitious dry mortars are from 0.1 to 0.4 wt% on total dry formulation. The optimum concentration is depending on the ultimate requirements on the product and should be tested. As short a mixing time as possible is recommendable.

Compatibility

ELOTEX® ERA100 is compatible with all types of cement. As well as with all standard mortar additives such as redispersible polymer powders, cellulose ethers, accelerators, retarders, stabilizers, thickeners, defoamers, etc.

Test Results



Surface of render, which was setting and hardening at low temperature and high humidity. Right added 0.2 wt % ELOTEX® ERA100 in comparison to the non modified render (left).

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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: 20 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	6 / 10.4.2010
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