FX5600

Technical Datasheet

Product Description

ELOTEX® FX5600 is a redispersible binder based on a copolymer of vinyl acetate, vinyl versatate, ethylene and butyl acrylate.

Protective colloid	polyvinyl alcohol
Additives	mineral anti-block agents
Plasticizers	none
Solvents	none
Film-forming agents	none

Specifications

Appearance	free-flowing, white powder
Bulk density	350 - 550 g/l
Residual moisture	< 1.0%
Ash TGA 1000°C	4.5% +/- 1.5%
pH value	5.4 – 7.4 (as a 10% dispersion in water)
Min. film building temp.	0°C
Film properties	opaque, flexible

Application Areas

ELOTEX® FX5600 is primarily suitable for formulating high-quality, 1 component tile adhesives for applications that place high demands on flexibility and wet strength, such as facade systems, terraces, balconies and swimming pools. It is especially suitable for producing EN12002 C2S2 compliant tile adhesives.

Key Properties

ELOTEX® FX5600 is a redispersible powder for formulating highly flexible, water resistant 1 component tile adhesives. In combination with appropriate raw materials, it can produce durable tile adhesives that are highly resistant to saponification.
Addition of ELOTEX® FX5600 does not affect the formulation's setting properties. Its neutral rheology enables product developers to freely modify selected properties.

During processing
– Excellent rheology and workability
– Long open time
– Improved water retention capability
– Very rapid wetting
– High shear stability

In the cured state
– Excellent adhesive bond strength (adhesion) on different substrates
– Increased plastic behavior and flexibility
– Increased cohesive force (cohesion)
– High wet strength values
– Improved freeze-thaw cycling resistance
– High saponification resistance

Tile adhesives formulated with ELOTEX® FX5600 are suitable for both floor and wall applications. They meet the increased demands of EN12002 and EN12004.

Formulations

For highly water resistant and flexible tile adhesives we recommend using up to 6% polymer. For highly water resistant (EN12004 C2) and highly deformable tile adhesives (S2) we recommend using approximately 10% Polymer. Sufficient wet strength (>1.0 N/mm^2) should still be achieved with polymer quantities > 10%.

We recommend using high-quality Portland cements in quantities of approximately 40%. High structure modified cellulose ethers combine well with ELOTEX® FX5600. A list of tested raw materials is available from our Technical Services department or from your local contact partner.

Powder Processing

Elotex powders can be blended in all commercial positive mixers with other dry additives to produce finished products in powder form. Since Elotex powders exhibit thermoplastic behavior, mixing times should be as short as possible, and significant temperature rise caused by strong shear forces should be avoided. All hydraulically and non-hydraulically curing dry mixtures with Elotex powder 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.

Packaging and Storage

Standard packaging: 20 kg paper sacks with polyethylene liners.
Other types of packaging such as Big Bags or silo wagons are possible on request.

As a basic rule it is recommended to store Elotex 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 powder.

Quality, Safety and Environment

Elotex powders are non-toxic and are unclassified according to Regulation 88/379/EEC. 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 ISO14001.

Product Liability

Other Information

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