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**Product Description**

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**ELOTEX<sup>®</sup> HD4500** is a redispersible binder based on the copolymer of vinyl acetate, vinyl versatate and acrylate.

Protective colloid	Polyvinyl alcohol
Additives	Mineral anti-block agents
Plasticisers	none
Solvents	none
Film-forming agents	none

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**Specifications**

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Appearance	free flowing, white powder
Bulk density	350 - 550 g/l
Residual moisture	< 2 %
Ash (DIN EN 1246 / 950 °C, 30 min)	9.5% +/- 1.25%
pH value	7.5 – 9.5 (as a 10% dispersion in water)
Min. film building temp.	approx. 0°C
Film properties	opaque, viscoplastic

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**Application Areas**

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ELOTEX HD4500 is a special development offering strong hydrophobic properties for mineral dry mortars based on cement or hydrated lime.

Highly recommended for outdoor use in cement-based systems where good water repellent and low water absorption properties are demanded.

**Main application areas**

- ETICS: adhesives and base coats
- Joint fillers & grouts
- Tile adhesives
- Flexible tile adhesives

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**Key Attributes**

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**During processing**

- Improved processing properties
- Improved water retention capability
- Reduced water demand

**In the cure state**

- improved workability.
- significant effect on the properties of the mortars is observed because of the strong hydrophobic tendency (in most formulations other hydrophobic agents can generally be withdrawn)
- Increased flexibility
- Improved adhesion to various base materials
- High improved tensile strength and abrasion resistance

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**Powder Processing**

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Elotex redispersible powders can be blended in all commercial positive mixers with other dry additives to produce finished products in powder form. Since Elotex redispersible powders exhibit thermoplastic behaviour, 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 redispersible 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.

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**Packaging and Storage**

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Standard packaging: 25 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 redispersible 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 redispersible powder.

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**Quality, Safety and Environment**

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Elotex redispersible powders are non-toxic and are unclassified according to Regulation 88/379/EEC. We recommend all individuals using Elotex redispersible 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.

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**Product Liability**

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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 redispersible 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.

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**Other Information**

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