

# Satex DS

## One component hydraulically setting waterproofing slurry

### Properties

Satex DS is a shoppremixed, plastic modified and hydraulically setting powder based on cement with capillary performing effect. When Satex is applied to concrete or cement mortar renders, a portion of the hydrophobic substances is transferred into the pores and capillaries of substrate. The hydrophobic component of the mixing water enters into an indissoluble combination with the mortar and the concrete. The hydrophobic substances in the capillaries are neither attacked by the alkalinity of the building material nor by any other chemical influence. The indissoluble hydrophobic substances in the capillaries are inactive when dry, but are reactivated upon the inflow of water. It has high waterproofing performance against humidity, seepage water and pressure water. Good bonding to several substrates, concrete, cement mortar render, masonry etc., hence no peeling off. It is high resistance to mechanical strength and to chemical compounds (soil acids). No lime efflorescence and no detrimental reaction with concrete, cement mortar render, masonry. It has no physiological effect to health hence and allowed for drinking water.

### Area of applications

Satex DS is suitable for the internal and external waterproofing of buildings below ground level against ground moisture, non pressure water, seepage water and reservoirs of potable water.

The selection of the appropriate water proofing depends upon the water pressure, the nature of water and soil and the structural design of building.

### Product Data

#### Pressure resistance:

Positive:  $\geq 8,0 \text{ bar /mm}^2$   
 Negative:  $\leq 5,0 \text{ bar /mm}^2$

Bottom layer restraint:  $\geq 3,5 \text{ N /mm}^2$

### Product Data

Base	Portland cement, well-graded aggregates, hydrophobic agents, synthetic resins
Solvents	none
Colour	grey
Application	float, mason's brush
Coat thickness	2-5 mm
Number of coats	2, with mason's brush
Consumption	approx. 1,9 kg/m <sup>2</sup> per mm
Dry residue	100%
Bulk density	approx. 1,55 kg/dm <sup>3</sup>
Density of the ready mortar	approx. 1,9 kg/dm <sup>3</sup>
Application temperature	above +3°C (atmosphere and substrate)
Cleaner	water when still fresh

### Working instructions

#### Preparation of substrates

Satex DS must only be applied to structures that remain crackfree. The substrate must be firm, stable and free from loose parts. Mill off or sandblast any existing plaster and render coats, whitewash, dirt and paint. An open capillary system is required. Any further pretreatment in addition to prewetting with the water is not required for absorbent substrates such as concrete, cement facing sand-lime and clay bricks, heavy concrete, hollow brick masonry walls with full joints of cement mortar. Prewetting depends upon the moisture content of the substrate and should give a dull moist surface. Standing water must be eliminated.

#### Mixing

Mixing of Satex DS with other building materials is not allowed. Preferably, it should be mixed with mechanical equipment. The amount of water added must be strictly observed. It requires an addition of 5,4 to 5,8 liters of water per 25 kg bag of Satex DS.

### Application

The material mixed at one time must not exceed the amount that can be applied within one hour. Do not add more water than required. Do not mix any other materials into Satex DS. Even in case of float application, a slurry coat is required for the first operation. After the setting of the slurry coat, Satex DS can be applied up to a maximum layer thickness of 5mm. In order to achieve a good bonding to horizontal surfaces, the first coat should be worked onto the substrate with a broom with hard bristles. The right application requires a minimum of two coats. Each of them must be applied on the whole surface. After application, the coat must be kept moist for 24 hours at least and protected from direct solar radiation and frost for another 5 days. Satex DS has a high inherent strength.

### Delivery and storage

Satex DS is delivered in bag 25 kg. Can be stored dry and in original sealed packing for at least 12 months.

### Notes

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