

# Satex DSS

## Hydraulically-setting waterproofing slurry with high sulphate resistance

### Properties

Satex DSS is a hydraulically setting waterproofing slurry for interior and exterior applications in the building sector, i.e. sewage pipes, shafts, tanks, foundations, walls and floors in areas with running water and a high sulphate incidence.

It has high water impermeability, also against pressure water and highly resistant to sulphate sollicitation in accordance with DIN 4030 (3.000 mg/liter and pH 4 to 4.5). Fast and easy to apply. Good bonding to substrate and resistant to frost and ageing.

### Area of applications

Satex DSS is suitable for the waterproofing of interior and exterior areas exposed to sulphate sollicitation for structures in the sewage sector, such as sewage pipes, shafts, gutters etc. Outside basement walls and foundations, walls and floors in areas with running water and restoration of old buildings. Satex DSS waterproofs substrates at the same time against ground moisture, seepage water.

The thickness of the relevant waterproofing layer will depend on the type of water sollicitation, the prevailing foundation material and the building structure.

### Product Data

Base	cement, filling materials and additives
Colour	grey
Density	approx. 1.4 kg/dm <sup>3</sup>
Consistency	in slurry or trowel like ready mixed state
Application	smoothing trowel, mason's brush
Consumption per operation	maximum 3 kg
Application temperature	+8°C to +30°C (air and substrate)
Number of coats	at least 2
Time available for application +20°C	approx. 2 hours

#### Pressure resistance:

Positive:  $\geq 8,2$  bar /mm<sup>2</sup>

Negative:  $<5,5$  bar /mm<sup>2</sup>

Bottom layer restraint:  $\geq 3,5$  N /mm<sup>2</sup>

Open to full service at +20°C after 3 days for mechanical sollicitation, pedestrian traffic covering, etc. after 5 days for water sollicitation

Cleaner water when still fresh

### Working instructions

#### Preparation of substrates

The substrate must be level, solid, clean and free from loose parts and may be either dry or moist. Water repellent residues should be removed. Joints, holes and gaps should be filled and protruding edges broken off. The wall/floor corners should be concaved using mortar to provide a continuous surface for the slurry. Coarsepored substrates (e.g. lightweight concrete blocks) should first be closed with a levelling thin coat of Satex D Spachtel in order to avoid air pockets. Satex DSS may only be applied to surfaces which remain free from cracks. Any further prior treatment in addition to prewetting with water is not required for absorbent substrates such as concrete, cement facing, sand lime and clay bricks, hollow block masonry with full cement mortar joints. Prewetting depends upon the moisture content of the substrate.

#### Mixing

Satex DSS is mixed with water. A small quantity of water or gauging liquid is first added. It should be mixed until an even, lump free mortar is achieved. Then the remaining water or gauging liquid is added and mixed, until a slurry or trowel consistency is achieved. All powder particles should be mixed. Mixing time: 3 minutes

Mixing equipment: electric drill with attached paddle or compulsory type mixer.

The material mixed at one time must not exceed the amount that can be applied within 2 hours at +20°C.

#### Application

Apply according to the slurry method with mason's brush. A waterproofing layer is achieved in at least 2 full cover coats. Observe the minimum layer thickness specified in the following table in accordance with the anticipated water sollicitation. After preparing the substrate the first layer of Satex DSS is always applied by mason's brush intensively and at full cover (consumption approx. 2.0 kg/m<sup>2</sup>).

The second coat should be applied when the first one cannot be longer damaged: either after 6 hours at the earliest at +20°C or after 24 hours at the latest. In order to guarantee that the material will dry without tension the consumption should not exceed 3 kg/m<sup>2</sup> per operation. Satex DSS should not be applied to frozen substrates, during frost or at high temperatures (over +30°C substrate temperature). The freshly applied coats should be protected for 3 days from drying out too quickly (e.g. sun, draught) and from rain. Satex DSS high inherent strength and can be coated with paints or receive ceramic tiles or gypsum free mortar after 3 days.

#### Watchpoints

Surfaces which have been coated with Satex DSS must be protected from damage. Before filling the building pit protective boards (e.g. drain boards) should be installed. A protective layer (e.g. screed or tiles) is to be applied to the waterproofed horizontal surfaces if they are subject to pedestrian traffic. For the waterproofing of the joints, an appropriate flexible or elastomeric sealant must be used. As a rule, the waterproofing of structure requires the application of the slurry to the surface exposed to the water (positive stress).

### Delivery and storage

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

### Notes

This data sheet is based on comprehensive experiences, intends to inform to the best knowledge, is not legally binding and does not constitute a contractual legal relationship or a side obligation from the purchase agreement. We guarantee for the quality of our product under our terms and conditions of sale and purchase. In to reduce the risk of error, limiting information is also stated. We reserve the right to make changes representing technical progress. This data sheet supersedes all earlier technical data on this product.