

TECHNICAL SHEET 20.01.03-EN



HYDROSOL Superflex 2K

Elastic 2K watertight compound

1. Description, Application

HYDROSOL Superflex 2K is an industrially prepared two-component compound intended for the preparation of elastic waterproofing compound for watertight protection of vertical and horizontal surfaces such as bathrooms - where the interior walls of dry prefabricated buildings are usually made of gypsum cardboards, on balconies, terraces, in swimming pools prior to the installation of ceramic tiles, as well as for the protection of parts of buildings built into the ground – tunnels, culverts, supporting and pillar walls, concrete fences and similar against intrusion of soil damp and water. As far as monolithic concrete walls are concerned, it assures quality watertight protection for positive and negative water pressure (insulation coat can be on either side of the wall). However, in the case of walls made of concrete or brick boards, it only assures quality watertight protection for the positive water pressure (insulation coat on the “water side” of the wall applied on at least 10 mm thick cement render finish).

2. Technical data

Packaging	7.5 kg, 20 kg
Density (ready-to-use compound) (T=20°C, RH=65%)	~1.3 kg/dm ³ (component A) ~1.03 kg/dm ³ (component B)
Open time (ready-to-use mortar compound)	~1,5 h
Maximum Total Thickness	~5 mm
Average consumption	~1.5 kg/m ² /mm
Initial tensile adhesion strength (EN 14891)	1,0 N/mm ²
Tensile adhesion strength after water contact (EN 14891)	0,7 N/mm ²
Tensile adhesion strength after heat ageing (EN 14891)	1,1 N/mm ²
Tensile adhesion strength after freeze-thaw cycles (EN 14891)	0,8 N/mm ²

Tensile adhesion strength after contact with lime water (EN 14891)	0,63 N/mm ²
Tensile adhesion strength after contact with chlorinated water (EN 14891)	0,6 N/mm ²
Resistance to positive water pressure (EN 14891)	No water penetration
Resistance to negative water pressure (EN 14891)	No water penetration

3. Installation Conditions

The temperature of the air and the wall surface should be between +5 °C and +30 °C and the relative air humidity should not exceed 80 %. Façade surfaces are protected against the sun, wind and rainfall by protective scaffold nettings; however, do not conduct any work in rain, fog or strong wind (≥ 30 km/h) despite such protection. In conditions of fast drying, treated surfaces are moistened.

4. Surface Preparation

Substrate should be solid and clean – without dust and other non-adhered or badly-adhered particles, remains of panelling oils and other filth. Suitable substrates include all at least a month-old fine coarse concrete substrates and also at least a month-old fine cement and solid – i.e. heavily reinforced with cement - lime-cement render finishes. Suitably roughen the substrates that are too smooth (shot blasting, brushing, rough polishing).

The substrate is soaked with water before applying the product so that it does not absorb it capillary anymore. The substrate should fully absorb water while water membrane or water drops should not be visible on the substrate since this would prevent waterproofing compound to adhere onto the substrate. The substrate may be moist, but not soaking.

Highly absorbent and similar substrates, such as gypsum cardboards, fibre-cement boards etc. are coated with JUKOL Primer, which is applied with a paint or masonry brush or a long-bristle fur or textile paint roller, or it can be sprayed. In normal conditions (T = +20 °C, relative air humidity = 65 %), the application of the watertight compound may begin 12 hours after the application of a primer.

For technical information on these primers, please read the technical data sheet.

Application of watertight coats may begin only after the subsiding processes of buildings have finished since excess deformations of the substrate, movements, cracks and the similar might be a source of irreparable damage.

5. Preparation of Compound for Application

First, component B is stirred well and poured into a larger clean container. The contents of a bag – component (A = 20 kilos) is slowly added to component (B = 7.5 kilos) and stirred well at low RPM to obtain a homogenous compound without any lumps (the stirring ratio is comp. A : comp. B = 4 : 1.5 - by weigh). Wait for 10 minutes for the compound to swell, then stir it well again.

In normal conditions (T = +20 °C, relative air humidity = 65 %), the prepared mortar compound can be used for 1.5 hour.

6. Application of Compound

Mortar compound is applied in two coats in total thickness of at least 2 mm, and in three coats on more exposed substrates. The first coat is applied with a masonry brush or a smoothing trowel and the thickness of individual coats is always approximately 1 mm. Each next coat is applied onto the dry previous coat, drying time in normal conditions (T = +20 °C, relative air humidity = 65 %) is 6 to 8 hours. The compound is applied into each following coat “square-on” the previous coat. The third, i.e. the levelling, coat should be 1 mm thick at the most and the total thickness of applications should not exceed 5 mm. Larger, mainly external surfaces, are reinforced with JUBIZOL vinyl-covered glass fibre mesh (grammage: at least 160 g/m²; windows: approximately 4 mm x 4 mm) which is imprinted into the still wet first application of the waterproofing compound when the product is applied in two coats or into the second application when the compound is applied in 3 coats. Special elastic sealing cords and collars

are installed into joints of vertical and horizontal surfaces and tubular and other breaches. They are also imprinted into the still fresh first or second coat of the waterproofing compound.

Surfaces laden with foot traffic are suitably protected against wear and tear and mechanical damages with suitable tile lining which is laid directly onto the waterproofing coat (always use elastic adhesives, e.g. AKRINOL Elastic and AKRINOL Flex).

In normal conditions ($T = +20\text{ °C}$, relative air humidity = 65 %), resistance of freshly processed surfaces to damage caused by drainage water (washing away of the application) is achieved within 24 hours at the latest.

Thoroughly clean the tools with water immediately after use.

7. Storage, Transportation Conditions and Durability

Component A:

Protect the product against moistening during transport. Store in dry and airy places and out of reach of children. Shelf life when stored in an originally sealed and undamaged packaging: at least 12 months.

Component B:

Storage and transport at temperature $+5\text{ °C}$ to $+25\text{ °C}$, keep out of direct sunlight, out of reach of children, IT **MUST NOT FREEZE!**

Shelf life when stored in an originally sealed and undamaged packaging: at least 12 months.

8. Other Information

Technical instructions contained in this brochure are provided based on JUB's experience and are given as a guideline to achieve the optimum results. JUB cannot accept any responsibility for damage caused by incorrect selection of a product, incorrect use or unprofessional work.

Safety measures: Follow the instructions on the safety data sheet of the product.

This technical sheet supplements and replaces all preceding editions. JUB reserves the right to change and supplement data in the future.

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