

TECHNICAL SHEET 20.01.01-EN



HYDROSOL Classic

Watertight compound

1. Description, Application

HYDROSOL Classic is an industrially prepared compound intended for the preparation of waterproofing compound for watertight protection of vertical and horizontal surfaces of water reservoirs, elements of sewage systems and similar facilities, 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. It complies with requirements for buildings intended for extraction, storage, and preparation of drinking water (Article 33 of the Slovenian Rules on drinking 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	5 kg, 20 kg
Density (ready-to-use compound) (T=20°C, RH=65%)	~1.6 kg/dm ³
Open time (ready-to-use mortar compound)	~1,5 h
Maximum Total Thickness	~5 mm
Addition of water	~25 %
Average consumption	~1.5 kg/m ² /mm
Adhesion to standard concrete (EN 24624)	>0.8 MPa
Resistance to positive water pressure (EN 14891)	No water penetration at coat thickness of 3 mm
Resistance to negative water pressure (EN 14891)	No water penetration at coat thickness of 3 mm

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 be below 80 %. Protect façade surfaces from sun, wind and rainfall using protective scaffold nettings; however, do not conduct any work in rain, fog or strong wind (≥ 30 km/h) despite such protection. In conditions of quick drying, treat the processed surfaces with moistening for 2 to 3 days.

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 may be moist, but not soaking. The 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

Pour the content of a bag into a suitable quantity of water (for the application with a brush: 270 to 300 ml/kg (27% - 30%) of dry compound; for the application with a masonry smoothing trowel: 230 to 250 ml/kg (23% - 25%) of dry compound. Stir well with an electric mixer to obtain a homogenous compound without any lumps. Wait for 10 minutes for the compound to swell. Then stir it well again. If necessary, add little water.

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

6. Application of Compound

Apply the mortar compound in at least two coats, but it is usually applied in three or even more coats. Always apply the first coat with a masonry brush. Apply the second and the third coats onto the still moist lower coat – usually with a stainless steel masonry smoothing trowel, but they can also be applied with a masonry brush. Apply the compound into each following coat “square-on” the previous coat. The total thickness of applications should not exceed 5 mm. Additional processing of the surface is possible only in the case of three- or more-coat applications. In this case, process the last coat with a polystyrene, plastic or wooden masonry smoothing trowel in a similar manner than conventional fine lime-cement render finishes are processed: when it is semi-hardened, moisten it and smooth or trowel it with circular movements using a smoothing trowel. The thus processed surface is suitable for potential decorative protection of the watertight coat (painting, decorative tile coatings, application of suitable thin-coat decorative render finishes). It can be done after 3 to 5 days. Suitably protect surfaces laden with foot traffic against wear and tear and mechanical damages (with tile or other suitable floor coatings), which can be laid directly onto the watertight proofing coat (always use elastic adhesives, e.g. AKRINOL Elastic and AKRINOL Flex).

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

Thoroughly clean the tools with water immediately after use.

7. Storage, Transportation Conditions and Durability

During transportation, protect the product against moistening. Store in dry and airy places!

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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