

## TECHNICAL SHEET 20.02.01-EN



# HYDROSOL Express 1K

## Ready-to-use watertight compound

### 1. Description, Application

HYDROSOL Express 1K is an interior, ready-to-use, watertight elastic compound for waterproofing and decorative purposes. For decorative purposes, it can be used only on wall and ceiling surfaces, while in case of lining with stone or ceramic tiles it can be used on wall and floor surfaces. It can be used for water proofing of bathrooms, toilets, kitchens, and areas which get wet frequently or only occasionally. Through a combination of watertight compound and JUPOL Strong protect aesthetic and functional appearance of areas is achieved without tile joints and easy to clean. Adequate surfaces are the following: finely coarse concrete surfaces, fine cement and lime-cement renders, gypsum renders, gypsum-cardboard boards, existing stone or ceramic tile lining, high-quality mineral and dispersion levelling compounds, well-adhered old dispersion coatings, fibre-cement boards and similar. The product bridges cracks of up to 0.75 mm wide and enables completely watertight and flexible connections. The product is not suitable for use on surfaces which are constantly under water.

### 2. Technical data

Packaging	5 kg
Density (ready-to-use compound) (T=20°C, RH=65%)	~1.35 kg/dm <sup>3</sup>
Addition of water	~5 %
Average consumption	~1.75 kg/m <sup>2</sup> /mm
Touch dry (T=20°C, RH=65%)	~1 h
Suitable for further treatment (T=20°C, RH=65%)	~1,5 h
Suitable for fixing ceramic tile lining (T=20°C, RH=65%)	~12 h-24 h or after 4-5 days in case of use on non-absorbing surfaces
Minimum total thickness for achieving water-tightness	~1 mm
Maximum thickness of application in one coat	~1 mm
Initial tensile adhesion strength (EN 14891)	≥1 N/mm <sup>2</sup>

Tensile adhesion strength after water contact (EN 14891)	≥0,5 N/mm <sup>2</sup>
Tensile adhesion strength after heat ageing (EN 14891)	≥1 N/mm <sup>2</sup>
Tensile adhesion strength after contact with lime water (EN 14891)	≥0,5 N/mm <sup>2</sup>
Tensile adhesion strength after contact with chlorinated water (EN 14891)	≥0,5 N/mm <sup>2</sup>
Resistance to positive water pressure (EN 14891)	No water penetration, it absorbs ≤20
Crack bridging ability under standard conditions (EN 14891)	≥0.75 mm

### 3. Installation Conditions

Each coat of the compound is applied to a dry previous coat; in normal conditions (T = +20 °C, rel. air hum. = 65 %) the drying time is 1 to 2 hours.

### 4. Surface Preparation

Surface should be slightly coarse, solid, dry, and clean – without badly-adhered particles, dust, remains of panelling oils, fat, or other filth. Rough surfaces and the ones with sharp edges should be adequately grinded or levelled and smoothed, while overly smooth surfaces should be made adequately coarse (sandblasting, brushing, rough grinding).

In normal conditions (T = +20 °C, relative air humidity = 65 %), let the newly applied renders and levelling compounds dry or mature for at least 1 day for each mm of their thickness. Concrete surfaces should dry for at least a month.

Remove all paints which get easily soaked in water, from already painted surfaces. Surfaces infected with wall mould must be disinfected with ALGICIDE Plus concentrate prior to applying watertight compound.

The use of watertight compound on extremely weak surfaces (weak renders and weak levelling compounds), which can be removed already by light cutting or with removal of protection strips is not allowed.

In case of very absorbent surfaces (gypsum-cardboard boards, gypsum renders, fibre-cement boards, etc.), it is mandatory to use a primer ACRYL Emulsion and on concrete surfaces (concrete slabs, screeds) JUKOL Primer.

When using the mass on existing ceramic coverings and on other extremely smooth, non-absorbent surfaces, it is mandatory to use the coarse AKRINOL Super grip primer. Ceramic tiles should be well adhered to the surface, without hollow sound, dry, and clean – without badly-adhered particles, dust, remains of different oils, fat, or other filth. Tile joints on existing ceramic tile lining must be levelled with the ceramic tile level (they must not be sunk, as this can be reflected in final appearance of decorative processing). For filling and levelling tile joints, we recommend the use of highly elastic dispersion tile joint filler AKRINOL Fugamix. If existing tile joints are infected with mould, they should be adequately disinfected with ALGICIDE Plus concentrate prior to levelling. Prior to applying the waterproofing compound, the existing ceramic tile lining should also be processed with AKRINOL Super grip. Very unevenly applied ceramic tile lining which rise from the surface for more than ±0.5mm/0.1m; 1m or 2m is not suitable for processing with the aforementioned waterproof compound. By installing the HYDROSOL Express 1K mass, under normal conditions (T = +20 °C, relative humidity = 65%), we can start 6 (ACRYL Emulsion), 4 (AKRINOL Super grip) or 12 (JUKOL Primer) hours after applying the base coat.

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

### 5. Preparation of Compound for Application

Only stir the waterproofing compound well before use. When applying the compound with painting brush, it can be diluted up to 5 % with water.

### 6. Application of Compound

Waterproofing compound is applied in two coats, with total thickness of at least 1 mm. The first and second coat can be applied with a masonry brush or smoothing trowel (in case of reinforcing, the first coat is applied with notched smoothing trowel); the thickness of each coat is app. 1 mm. We recommend checking the thickness

during application by using a comb for measuring thickness of wet film. Each coat of the compound is applied to a dry previous coat; in normal conditions ( $T = +20\text{ }^{\circ}\text{C}$ , rel. air hum. = 65 %) the drying time is 1 to 2 hours. In each subsequent coat, the compound is applied »perpendicularly« to the previous application. For use on floor surfaces and when using the product on existing stone or ceramic tiles, we recommend reinforcing of surfaces with JUBIZOL vinyl-covered glass fibre mesh (grit size: at least 160 g/m<sup>2</sup>; windows: approximately 4 mm x 4 mm), which is imprinted in still fresh first application of waterproofing compound. The first coat prior to the application of second one, and same with the second and third coat, is grinded with fine sandpaper. Grinding can be performed manually or by a machine (we recommend using a pneumatic grinder). The product can also be grinded with vibration and rotation grinders. One can choose among sandpapers P80-P150. **WARNING:** The product is rather harder to grind than common levelling compounds, Therefore, we recommend applying it and levelling it as nicely as possible, as smooth as possible without bulges and crests.

Special elastic sealing strips and sheets are installed above dilatation cracks, into joints of vertical and horizontal surfaces, into tubular and other breaches; they are also imprinted into still fresh first coat of the waterproofing compound. The product is not suitable for use on self-adhesive strips!

Thoroughly clean the tools with water immediately after use, hardened residues can only be removed mechanically.

## 7. Storage, Transportation Conditions and Durability

Storage and transport at temperature  $+5\text{ }^{\circ}\text{C}$  to  $+25\text{ }^{\circ}\text{C}$ , 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 on the basis of 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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