

TECHNICAL SHEET 08.02.03.01-Eng
WATERPROOFING COMPOUNDS

HIDROZOL SUPERFLEX 2K

Elastic two-component watertight compound

1. Description, Application

HIDROZOL SUPERFLEX 2K is industrially prepared two-component product intended for the preparation of elastic waterproofing compound for watertight protection of vertical and horizontal surfaces such as bathrooms – where interior walls of lightweight buildings are usually made of gypsum-cardboards, on balconies, terraces and pools prior to the application of ceramic coatings, as well as for 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 the 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 onto at least 10 mm thick cement render finish).

2. Packaging

Component A: paper bag holding 20 kilos

Component B: plastic containers holding 7.5 kilos

3. Technical Data

Density of the ready-to-use mortar compound (kilo/dm ³)	~1.3
Open time of the ready-to-use mortar compound T = +20 °C, relative air humidity = 65 % (hours)	~1.5
Total application thickness (mm)	Minimum 2 mm Maximum 5 mm
Initial tensile adhesion strength pr EN 14891/2006: min. 0.5 (MPa)	1.0
Tensile adhesion strength after water immersion pr EN 14891/2006: min. 0.5 (MPa)	0.7
Tensile adhesion strength after water immersion at +70 °C pr EN 14891/2006: min. 0.5 (MPa)	1.1
Tensile adhesion strength after freezing and thawing pr EN 14891/2006: min. 0.5 (MPa)	0.8
Tensile adhesion strength after lime-kiln immersion pr EN 14891/2006: min. 0.5 (MPa)	0.63
Tensile adhesion strength after chlorinated water immersion pr EN 14891/2006: min. 0.5 (MPa)	0.6
Resistance to positive water pressure pr EN 14 891/2006	No water penetration

Main ingredients: cement, polymeric binder, quartz fillers



4. Surface Preparation

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

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

Before applying the product, surfaces are coated with water-diluted JUKOL (JUKOL : water = 1:1), 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.

Indicative or average use (depending on absorption and roughness of the surface):	
JUKOLPRIMER	90 - 100 ml/m ²

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

5. Preparation of Waterproofing 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 mass ratio is comp. A : comp. B = 4 : 1.5). Wait for 5 to 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

Mortar compound is applied in two coats in total thickness of at least 2 mm, and in 3 coats on more exposed surfaces. 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; hole size: 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 wet 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 coating which is laid directly onto the waterproofing coat (always use elastic adhesives, e.g. AKRINOL ELASTIK or AKRINOL FLEX).

Application of the mortar compound is possible only in suitable weather or microclimate 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.

In normal conditions (T = +20 °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.

Approximate or average consumption (for 1 mm thick application):	
HIDROZOL SUPERFLEX 2K	~1.5 kilo/m ²



7. Tool Cleaning, Waste Management

Thoroughly clean the tools with water immediately after use.

Keep the unused dry mortar compound in a well-sealed packaging for potential later use. Useless remains should be mixed with water and when hardened deposited onto the dumping grounds of construction waste (waste classification number: 17 09 04) or municipal waste (waste classification number 08 01 12).

Cleaned packaging can be recycled.

8. Safety at Work

In addition to general instructions and regulations for construction and insulation works, please consider that the product contains cement and is therefore classified among dangerous preparations labelled as Xi IRRITANT. The content of chromium (Cr 6+) is lower than 2 ppm.

Protection of the respiratory system: the use of a safety mask under very dusty conditions. Protection of hands and body: work clothing, preventive protection with a protection cream and the use of protective gloves are recommended in the case of prolonged exposure of hands. Protection of eyes: protective glasses or a safety mask.

Description of first aid measures:

- In case of inhalation:

Ensure sufficient inflow of fresh air and seek medical advice for safety.


If unconscious, place and transport in stable lateral recumbent position.

- In case of contact with skin: Rinse immediately with water and soap and wash out well.

- In case of contact with eyes:

Immediately widen the eyelids, rinse thoroughly with clean water for a few minutes and seek medical advice.

- In case of ingestion: If problems persist, seek medical advice.

<p>Warning signs on the packaging</p>	<p style="text-align: center;">Xi</p> <div style="text-align: center;">  </div> <p style="text-align: center;">IRRITANT!</p> <p>Components which determine danger and should be labelled: It contains: cement, Portland</p>
<p>Special measures, warnings and observations for safe work</p>	<p>R37/38 Irritating to respiratory system and skin. R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact.</p> <p>S2 Keep out of the reach of children. S24/25 Toxic in contact with skin and if swallowed. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S28 After contact with skin, wash immediately with plenty of water. S37/39 Wear suitable gloves and eye/face protection. S46 If swallowed, seek medical advice immediately and show this container or label.</p>



9. Maintenance and Restoration of Painted Surfaces

Treated surfaces do not require any special maintenance.

Restoration of processed surfaces includes a new, at least two-coat application of the waterproofing compound – see details in the “Application” chapter.

10. Storage, Transport 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 °C to +25 °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.

11. Quality Control

The product's quality characteristics are determined by the internal manufacturing specifications as well as by the Slovene, European and other standards. JUB ensures the achieving of the declared or set quality level by the ISO 9001 system for total quality management and control, which has been implemented at JUB for many years and which comprises daily quality checks in our own laboratories, occasionally at the ZAG Construction Institute in Ljubljana and other independent expert institutions in Slovenia and abroad. During the manufacturing process, JUB strictly complies with the Slovene and European standards for the protection of the environment and for ensuring security and health at work, which has been confirmed by the ISO 14001 and OHSAS 18001 certificates.

	
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Identification code of the type of product: 08-02-03 Number of the Declaration of Performance: 001/14-HDA 20	
SIST EN 14891:2012	
Two-component elastic watertight compound (components A and B)	
Resistance to positive water pressure	No water penetration
Initial tensile adhesion strength	≥ 0.5 N/mm ²
Tensile adhesion strength after water immersion	≥ 0.5 N/mm ²
Tensile adhesion strength after water immersion at +70 °C	≥ 0.5 N/mm ²
Tensile adhesion strength after freezing and thawing	≥ 0.5 N/mm ²
Tensile adhesion strength after lime-kiln immersion	≥ 0,5 N/mm ²
Filling capacity in standard conditions	≥ 0.75 mm



12. Other Information

The 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.

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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The product is made by the holder of ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 certificates.