

LIQUIGUM PLUS

NATURE OF THE PRODUCT

A fibre-reinforced, water-based, coloured, elastomeric, waterproofing liquid with exceptional resistance and durability properties, ideal for large surface areas too. **LIQUIGUM PLUS** conforms to **ETAG 005** guidelines for liquids applied as waterproofing agents.

FIELDS OF USE

Its special formula makes it highly flexible, stable also at very low temperatures without being affected over time. The product can be walked on normally. **LIQUIGUM PLUS** is suitable for use where impermeability is required, even on flat surfaces subject to water pooling. It offers excellent resistance to ageing and to U.V. rays. Suitable for waterproofing bases in concrete, slabs in fibre cement, metal roofs including oxidizable, wood, covered flooring, natural stone, brickwork, insulating panels and bitumen-polymer membranes (oxidised for at least 180 days after laying).

SURFACE PREPARATION

Thoroughly clean the base to remove: dust, friable parts, foreign substances or anything that could hinder adhesion. To help adhesion on loose foundations the prior application of a water-based dust consolidating liquid is recommended. Check for any humidity in the foundation, which must be removed to prevent air bubbles from forming as a result of vapour pressure. If no suitable instruments are available, a practical method is to apply a polythene sheet sealed with adhesive tape to a part of the surface exposed to the sun. Then check for any condensation after 24 hours. If there is no condensation then proceed to apply **LIQUIGUM PLUS** but otherwise wait until it is completely dry.

ADVICE

Do not use additives.
Do not use if the container is damaged.
Do not add water and/or solvents.

WARNINGS

If **LIQUIGUM PLUS** is to be applied over a bitumen-polymer membrane, make sure it has been oxidised for at least 180 days. Apply **LIQUIGUM PLUS** at temperatures between +5°C and + 35°C. For the first 24 hours following application protect from water, rain and snow. Do not apply if high humidity is expected during the night.

APPLICATION

The product is ready to use and can be applied over a dry base with: a roller with short bristles, a flat brush or airless. Apply two coats of the product (wait at least 24 hours between the first and second coat) to obtain an even thickness ideal for waterproofing. In order to maintain the waterproofing action, around the perimeter of the surface to be treated, for drain outlets, aerators etc. use the waterproof adhesive band VZ SEAL BAND

APPLICATION WITH REINFORCEMENT

On bases that are especially subject to deformation, even to a high degree, and therefore at risk of cracking, reinforce **LIQUIGUM PLUS** with a synthetic reinforcement. The product must be applied as follows. Apply **LIQUIGUM PLUS** (using about two-thirds of product) evenly over the base to be treated. Put the reinforcement in place and sink it in until it disappears with the help of light pressure from a roller and wait for it to dry completely (24 hours). Then apply **LIQUIGUM PLUS** a second time to reach the amount necessary as stated in this technical data sheet.



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SURFACES WITH JOINS:

Use a waterproof elastic band, made of rubber and polyester fabric, suitable for waterproofing structural joints. The elastic band should be applied as follows: clean the surface to be treated to remove any water pooling. Apply **LIQUIGUM PLUS** laterally to the joint and to a width that exceeds the joint covering. Lay the joint covering making the tape adhere while it is still wet to the perforated band sideways on to the area pre-treated with **LIQUIGUM PLUS**. Once dry, it can be completely covered.

COVERAGE

1.2 - 1.4 kg/m² in two coats

1.8 – 2.0 kg/m² in two coats with the addition of a synthetic reinforcement in-between.

PACKAGES

5-10-20 kg tubs.

COLOURS

White, grey, red, green.

STORAGE

The product in its original container and kept in a dry and sheltered place will remain stable for 24 months. Does not withstand frost, store at temperatures of between +5°C and +35°C.

SAFETY RULES

PRECAUTIONS

For information on the safety rules, the user must read the most recent Safety Sheet, written in compliance with the applicable regulatory standards, which contains the physical and toxicological data as well as other information on using the product.

ECOLOGY

Do not dispose of the product and/or empty containers in the environment. See the most recent Safety Sheet for more information on disposal.

PRODUCT CHARACTERISTICS

Appearance	Fibral fluid paste
Colour	White, grey, red, green
Specific weight at 20°C (g/cm ³)	1.45 ± 0.05
Solid content (%)	75 ± 3
Brookfield viscosity at 20°C (Cps)	18,000 ± 2,000

PRODUCT PERFORMANCE ONCE APPLIED

Working temperature	-30°C + 80°C
Resistance to weathering	Excellent
Resistance to U.V. rays	Excellent

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Tensile strength and ultimate elongation before accelerated ageing (ASTM D 2370)

Breaking strength (N/mm ²)	Elongation (%)
1.41	438

Tensile strength and ultimate elongation after 1000 h of accelerated ageing (ASTM D 2370)

Breaking strength (N/mm ²)	Elongation (%)
1.66	247

Permeability (perms) ASTM D 1653 Method B Condition A

VALUE	REQUESTED
10	≤ 50

Fungal resistance (evaluation) ASTM G 21

VALUE	REQUESTED
0	0

Tear strength (lbf/in) ASTM D 624

VALUE	REQUESTED
106	≥ 60

Water absorption (ASTM D 471) before accelerated ageing

Number of days in water	Absorption (% on the mass of the weight)
7 ± 4h	17

Water absorption (ASTM D 471) after 1000 h of accelerated ageing

Number of days in water	Absorption (% on the mass of the weight)
7 ± 4h	6

Flexibility at low temperatures (ASTM D 522) before accelerated ageing

Temperature (°C)	Breakage (Yes/No)
-26	No

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Flexibility at low temperatures (ASTM D 522) after 1000 h of accelerated ageing

Temperature (°C)	Breakage (Yes/No)
-26	No

Resistance to accelerated ageing cycle (ASTM D 4798)

QUV machine: Accelerated Weathering Tester. Model QUV/Spray

Hours	Presence of lesions
1000	No

Resistance to wear ETAG 008

Number of passes	Weight loss in %
10,000	0

Adhesion to base before sun - rain cycles (25 cycles)

Torque meter standardized to UNI EN 1348-2000

Base	Before sun – rain cycles	After sun-rain cycles	Requested
Concrete	1.45 N/mm ²	1.20 N/mm ²	≥ 1.0 N/mm ²
Ceramic	1.70 N/mm ²	1.55 N/mm ²	≥ 1.0 N/mm ²

Product complies with the requirements of Directive 2003/53/CE

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Rev. 0 – 05/18