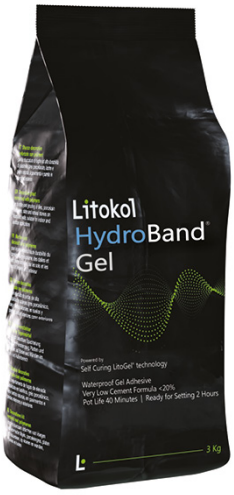
HydroBand Gel
Technical Specifications



Fast-setting, single-component sealing gel for bonding and waterproof sealing of HydroBand accessories

Product description

Fast-setting, single-component sealing gel for bonding HydroBand Anti-Fracture tape and Hydro Corner Internal – External corner pieces, and for their waterproof sealing.
The sealing gel is easy to mix and apply, and provides bonding and watertight sealing for tapes and accessories in a very short time, enabling you to cope with the challenging weather conditions on outdoor construction sites.

Certifications

EC1 Plus Gev Emicode
A+ Indoor air emissions

Substrates

HydroProof Anti-Fracture, a pre-formed waterproofing vapour barrier membrane supplied in rolls, for under-tile waterproofing in swimming pools, terraces, damp rooms and showers.
LitoTex Extreme, a pre-formed, decoupling, anti-crack and waterproofing membrane for the installation of floor and wall coverings in ceramic tiles, porcelain stoneware and natural stone, including removable tiles.

Uses

Interior – exterior
Floors – walls

Overlay
Terraces and balconies
SPA and Hammam
Indoor wet areas (bathrooms, showers)
Residential, public, commercial building

Limitations

The ambient and surface temperature must be above 5°C at the time of installation and for 72 hours after application
Do not apply to wet surfaces, damp substrates (> 5% moisture content) or those subject to rising damp
Do not use as a surface waterproofing agent
Do not apply if there is condensation on the surfaces

Do not apply to uneven or excessively rough substrates. Apply a skim coat with HydroLevel®
Do not use where negative hydraulic pressures are present
Do not apply the product to bituminous membranes, rubber substrates or substrates treated with resins
Refer to national standards, such as UNI 11493

Product specifications

Appearance	Powder
Colour	Light grey
Responsible packaging	3 kg recyclable bag
Shelf life	24 months in original packaging in a dry place. Protect against frost.
Customs heading	38245090

Application Specifications

Mixing ratio	3 kg (1 bag) – Water 1 l (35%)
Consistency of the mix	Creamy
Dough proving time	5 minutes
pH of the mixture	13
Specific gravity of the mixture	1.4 kg/dm^3
Recording time	20 minutes
Pot life	About 50 minutes
Applicable thicknesses	From 1 to 5 mm
Application	Notched trowel
Permissible application temperatures	From +5°C to +35°C
Waiting time before laying the covering	Immediate
Commissioning	3 days
Operating temperature	From -30°C to +80°C
Cleaning of equipment	With water when the product is fresh. Mechanically once the product has hardened.
Coverage	0.2 kg/m of tape

Preparation of substrates

The substrates must be clean, solid, compact, crack-free, properly cured and without rising damp.
It is not necessary to wait for the adhesives used to bond the HydroProof Anti-Fracture and LitoTex extreme membranes to set; however, care must be taken not to compromise the bond.

Preparation of the mix

To fully appreciate the superior flow properties and thixotropy of the innovative Gel mixture, we recommend mixing the product using the specified mixing ratio. Pour the correct amount of water into a container and slowly add the product, mixing with a mechanical mixer until a creamy, homogeneous mixture free from lumps is obtained. Leave the mixture to rest for approximately 2 minutes, during which time the polymer gel develops fully: the hydraulic binders, fillers and cellulose hydrate evenly, the micro-air bubbles incorporated during mixing are eliminated, and the polymers begin the activation process. Stir briefly before applying to both floors and walls.

Application

Apply the HydroBand Gel sealant adhesive to the corners of the rooms to be waterproofed, creating a thickness of at least 1 mm, onto which apply the pre-formed HydroCorner Internal – External corner pieces, applying firm pressure with a trowel to avoid leaving gaps or creases. Ensure that the sealing adhesive has not formed a surface film that would prevent the corners from adhering. Repeat the process along the perimeter of the surface and along all joint lines. Refer to the technical data sheets for the products listed before use.

Warnings

Apply the product at temperatures between +5°C and +40°C
Protect the waterproofing from heavy rain for the first 2 hours after application
In hot weather, store the product packs in a cool place away from direct sunlight before use
Due to the high adhesion, it is recommended to wash tools and remove any product residue from surfaces with water before the gel hardens. Once the reaction is complete and the gel has hardened, it can only be removed mechanically.
Do not use for applications not listed on this technical data sheet
For further information, please contact Litokol's Technical Customer Service on +39-0522-622811 or via customercare@litokol.com

Safety Information

For the safe use of our products, please refer to the latest version of the Safety Data Sheet, available at www.litokol.com
PRODUCT FOR PROFESSIONAL USE

Legal notices

The information and specifications set out in this technical data sheet are based on our best experience. However, as we are unable to directly influence site conditions or the execution of the works, these are general guidelines which do not in any way bind our Company. We therefore recommend carrying out a preliminary test to verify the product's suitability for the intended use; in any case, anyone intending to use it is required to determine whether or not it is suitable for the intended use and, in any event, assumes all liability that may arise from its use. Always refer to the latest updated version of the Technical Data Sheet, available on the website www.litokol.com

Specification item

The bonding and waterproof sealing of the HydroBand Anti-Fracture tape and the pre-formed HydroCorner corners onto HydroProof Anti-Fracture or LitoTex Extreme membranes is carried out using a fast-setting, single-component sealing gel such as HydroBand Gel by Litokol Lab SpA

Preparation of substrates

In accordance with standard UNI 11493-1, substrates and coatings based on concrete, cement and plaster must be adequately cured and must not show signs of excessive moisture emission, condensation, efflorescence or hydrostatic problems. Substrates must be mechanically sound and free from loose particles, grease, oil, paint, wax and rising damp. Cement-based plasters must be allowed to cure for at least one week per centimetre of thickness. For surfaces frequently exposed to contact with water, such as balconies, terraces and shower floors, check that the gradients and the size of the drainage systems are adequate to allow proper water runoff, taking into account the size of the exposed surface and the maximum expected wetting conditions. Generally, a gradient of 1–1.5% is sufficient to ensure proper water drainage. Any levelling of cementitious substrates or the creation of gradients can be carried out using the fast-setting, non-shrink structural levelling compound HydroLevel®.

On porous substrates such as screeds and cementitious skim coats, or those made with HydroLevel®, and lightweight panels with a surface finish of reinforced cementitious skim coats, apply one coat of SafetyGel® primer, diluted with water by 10–20 per cent, using a roller or brush. This application seals any surface porosity in the substrate, preventing the formation of any micro-bubbles when the subsequent first coat of SafetyGel® is applied after approximately 30 minutes. Cement-based screeds must have a total curing time of at least 28 days or be laid using the innovative X-Floor® and X-Floor® Pro anti-crack screeds. Create slopes on balconies or pavements using the HydroLevel® levelling compound. Dusty, porous and absorbent substrates can be treated with X-Prime®, an innovative fixative and consolidant. Smooth, compact substrates, such as old ceramic tiles or terrazzo, must be treated with the specific detergent X-Cleaner® Scrub. In the case of anhydrite screeds, ensure that a suitable vapour barrier is in place to prevent any rising damp. Check using a carbide hygrometer that the residual moisture content is less than 0.5% and 0.3% for underfloor heating screeds. Any cracks or fissures must be sealed with CrackRepair. In any case, the respective technical data sheets must be consulted for correct use of the indicated products.

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