

QuickBlock LI – Moisture Barrier – 1K Surface Preparation

1. Characteristics:

QuickBlock LI is a 1-component specially formulated lithiumwaterglass solution for the surface preparation of wet or moist mineral surfaces. *QuickBlock LI* compresses and conserves large-pored surfaces through crystallization and builds a perfect moisture barrier by sinking its deep gripping claws into the surface. *QuickBlock LI* can be used for preparation of concrete, a large variety of masonry and stone, conventional plaster, mortar and other mineral based materials. *QuickBlock LI* can be used for surface preparation under all VIP POLYUREA Surface Coatings as well as the Joint Fillers.

2. „Pro“- Facts at a glance:

- Watery anorganic solution with a low alkali-content
- Good capacity to moisten and penetrate the substrate
- The high degree of strengthening increases the pressure resistance
- Builds a waterproof and acid resistant structure
- No blooming
- Free of solvents or VOCs
- Non toxic
- Heat resistant
- Non flammable
- Resistant against microbes
- Odour neutral
- Good storability



3. Application:

The surface needs to be solid and workable. Existing holes, cuts, blooms, cement sludge, structural damages, moss- and root-attac need to be removed. Adhesion eroding substances like dust, grease, loose dirt and the likes need to be removed prior to application. Breakages, cuts etc. need to be repaired prior to the moisture barrier treatment. To deminish the lingering moisture in the surface the moisture barrier can be applied with residual moisture levels of < 5%, measured at a depth of 20mm. Do not apply on standing water or where the water is flowing. Wateringression needs to be stopped or treated (e.g. Injection or drainage-systems).

The application can be achieved through rolling, spraying, flooding or injecting. The application temperature (substrate, air) should be between +5°C and +30°C liegen. At high degrees of residual moisture (>5%) the product needs to be applied in multiple layers. Please ensure that a time frame of 6-12 hours between coats is always kept. Depending on surrounding factors (temperature, moisture, residual moisture, ventilation, etc.) the following POLYUREA System can be applied within a few days. In general please ensure that a moisture test is done prior and after each application step.

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POLYUREA

4. Processing Properties:	Data EU
Mix Ratio	Premixed product ready for use
Theoretical Coverage	~ 0.1 up to 0.5 l/m ²
Advised thickness	Dependent on the porousness of the surface
Multiple layers	Advisable, from residual moisture >5%
Overcoating time (<i>QuickBlock LI</i>)*	6 – 12 hours for multiple layers between each layer
Overcoating time (Polyurea systems)*	A few days, dependent on the surrounding temperature
Ambient temperature (Work Area)	+5°C to +30°C
Ambient temperature (Substrate)	+5°C to +30°C

5. Physical Properties:	Data EU
Chemical Base	Lithiumwasserglass (Lithium-Silikate)
Solid Content	~ 27 %
Solvent, VOC	None, 0 g/l
pH-Value	~ 12,5
Viscosity *	~ 20 mPa.s
Density *	1,26 g/cm ³
Thermal Stability	-30°C bis +120°C
Penetration depth	~ 40mm
Storage Conditions	18°C-23°C @ 50%rF
Shelf life	180 Days

*) All measurements at 23°C @ 50%rF. Please take note of changes in timings at varying working parameters and temperatures.

6. Miscellaneous:

Storage: *QuickBlock LI* has a shelf life of maximum 6 months from the date of manufacture. Please keep away from frost or direct sunlight. Store in a dry place at room temperature (18-23°C) without fail. Please keep the product on pallets and do not store on the floor. Not suitable for stoprage in containers made from aluminium or zinc coated metal.

Delivery containers: 20l canisters, 200l drums

Transport: Please read the Material Safety Data Sheet (MSDS) for detailed instructions.

Disposal: Hardened material can be disposed of with general waste. The liquid material have to be disposed of as per the "Guidelines for Disposal" from the Material Safety data Sheet (MSDS) in its latest version.

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7. Safety:

This product is for use by professional applicators only. Wear protective glasses and clothing. Please read all information in the general guidelines, technical data sheets, method statements and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. All contractors/applicators are obligated to keep an application log respectively a user's protocol for each individual job. This application log will enable all parties involved to reconstruct and track the sequence of operation and work flow. The application log is a precondition for VIP to initiate any claim what so ever. Contact your local VIP GmbH representative or visit our website for current technical data and instructions.

www.polyurea-solutions.com

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein is the only one which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Failure to adhere to any recommended procedures shall relieve VIP GmbH of all liabilities with respect to the materials and the use thereof. Test performance results were obtained in a controlled environment and VIP GmbH makes no claim that these tests or any other tests accurately represent all environments. Technical alterations excepted.

The quality and performance of the product is dependent upon the proper mixture and application of the components by the applicator. There are no warranties that extend beyond the description on the face of this instrument. We refer to the rights of the buyer in respect to the quality and performance of the products to our "General Terms and Conditions" at a time relevant version, which are the only valid contractual basis for any business transaction between VIP GmbH and the buyer.

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