

Waterproofing PU FLEX 1000

Technical Data Sheet

Reviewed: 26.02.2020



DESCRIPTION

PU FLEX 1000 is one component liquid-applied, permanently highly elastic, polyurethane membrane used for long-lasting waterproofing. Due to the polyurethane technology, it offers the solution to sealing problems where other methods fail, such as on surfaces with standing water and ice. Cures by reaction with atmospheric moisture.

ADVANTAGES

- Life time up to 25 years
- Simple application (1 component ready to use)
- · Forms a walkable uniform seamless membrane
- Resistant to water
- Resistant to frost
- Maintains its mechanical properties over a temperature range of -30°C to +90°C
- Crack-bridging up to 2mm
- Excellent UV resistance
- Water vapour permeability
- The waterproofed surface can be walked on
- Defects can be easily repaired locally within minutes
- Highly cost effective

APPLICATIONS

- · Waterproofing of roofs, balconies and terraces
- Waterproofing of wet areas (under-tile) in bathrooms, balconies, kitchens, etc
- Protection of polyurethane foam insulation and alternative insulation panels
- Waterproofing of flowerbeds and foundations
- Waterproofing and protection of concrete constructions like bridge-decks, tunnels, etc.

INSTRUCTION FOR USE

Substrate preparation

Careful surface preparation is very important for optimum finish and durability.

- The surface needs to be clean, dry, sound and free of any contamination that may harmfully affect the adhesion of the membrane.
- 2. Maximum substrate moisture content should not exceed 5%.
- 3. New concrete structures need to dry for at least 28 days.

- 4. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by mechanical means such as a sanding machine. Possible surface irregularities need to be smoothened.
- 5. Clean surface thoroughly.

Repair of cracks

The careful sealing of existing cracks and joints before the application is extremely important for long lasting waterproofing results.

- Clean cracks and hairline cracks, from dust, residues or other contamination.
- Cracks and joints larger than 2 3mm must be primed locally with solvent based primer ISOCRYL PRIMER DUR, or waterbased primer ISOCRYL PRIMER DUR AQUA and allow drying. Fill all prepared cracks with elastomeric acrylic filler FLEX.
- Bigger cracks and expansion joins must be primed locally with polyurethane primer PRIMER PU 900 and filled with polyurethane sealant BONDFLEX.
- 4. Small cracks up to 2 3mm must be primed locally with solvent based primer ISOCRYL PRIMER DUR, or waterbased primer ISOCRYL PRIMER DUR AQUA and allow drying. Apply locally one coat of PU FLEX 1000 and on the wet coat dip a fibre net (30gr/m²) or fibre tape (60gr/m²) 4 10cm wide and recoat with PU FLEX 1000.

Priming

- Prime absorbent surfaces like concrete, cement screed, wood with solvent based primer ISOCRYL PRIMER DUR, or waterbased primer ISOCRYL PRIMER DUR AQUA. Allow drying for 2 – 4 hours.
- Prime non-porous or difficult surfaces (metal, ceramic tiles, plastics) with ADHESIL PRIMER.

Application

- Stir well before use.
- Poor the PU FLEX 1000 onto the primed surface and spread it using a roller or brush, until all surface is covered. You can use airless spray allowing a considerable saving of manpower.
- After 12 hours (not later than 36 hours) apply another layer of the PU FLEX 1000. If necessary apply a third layer of PU FLEX 1000

RECOMMENDATION: We recommend reinforcement of the entire surface, with the fibre cloth. Use 5-10cm stripe overlapping. Reinforce always with the fibre cloth at problem areas, like wall-floor connections, chimneys, pipes, waterspouts (siphon), etc. In order to do that, apply on the still wet PU FLEX 1000 a correct cut piece of non-woven fibre cloth, press it to soak, and saturate again with enough PU FLEX 1000.

ATTENTION: Do not apply PU FLEX 1000 over 0.7 mm thickness (dry film) per layer. For best results, the temperature during application and cure should be between 5°C and 35°C. Low temperatures delay curing while high temperatures speed up curing. High humidity may affect the final finish.





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CLEANING

Clean all equipment immediately after use with polyurethane solvent DILX 100

COVERAGE

1,3 – 1,8kg/m² applied in two layers.

TECHNICAL CHARACTERISTICS

Base: Polyurethane resin

Colour: White

Elongation at break: 850 ± 5 % According to ASTM D 412 Tensile strength: 7,5 ± 5% N/ mm² According to ASTM D 412 Water vapour permeability: 25 ± 10% gr/m²/day ISO 9932:91 Resistance to water pressure: No leak (1m water column, 24h)

According to DIN EN 1928)

Adhesion to concrete: 2,4 ± 10% N/mm² (concrete surface

failure) According to ASTM D 903)

Hardness (Shore A Scale): 60 ± 15% According to ASTM D

Rain stability time: 3-4 hours (20°C, 50% RH)

Light pedestrian traffic time: 12 - 36 hours (20° C, 50% RH)

Final curing time: 7 days (20° C, 50% RH)

Chemical properties: Good resistance against acidic and alkali

solutions (10%), detergents, seawater and oils.

VOC (Volatile organic Compounds) CONTENT: (Directive 2004/42/CE) EU maximum VOC content limit values for this product (category A/i(SB): «One-pack performance coatings»): 500 gr/lt (2010). This product contains maximum 490 gr/lt VOCs (ready for use product).

STORAGE

Store in dry and cool storage conditions at temperatures 5°C -35°C. Protect from moisture and direct sunlight

SHELF LIFE

At least 12 months in unopened containers. Products should remain in their original unopened containers, bearing the manufacturers batch number.

PACKAGING

White: 6Kg, 25Kg Ceramic Red: 6Kg

PACKAGING White	CODE	BARCODE
6Kg 25Kg	68000 68001	5204094051114 5204094051121
Ceramic Red 6Kg	68007	5204094051145

HEALTH AND SAFETY INFORMATION







Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Lig. 3: H226 -Flammable liquid and vapour Skin Irrit. 2: H315 - Causes skin irritation STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral) P101: If medical advice is needed, have product container or label at hand P102: Keep out of reach of children P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P264: Wash thoroughly after handling P280: Wear protective gloves/protective clothing/eye protection/face protection P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P370+P378: In case of fire: Use ABC powder extinguisher to extinguish P501: Dispose of contents/container according to the separated collection system used in your municipality EUH204: Contains isocyanates. May produce an allergic reaction.

Substances that contribute to the classification: Xylene

The directives contained in this technical data sheet are the result of our long experience from real life applications and the research testing of our research and development laboratory and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications, which are beyond our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. We are liable only for our products for being free from faults and of consistent quality. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. The present edition of this technical datasheet automatically cancels any previous ones concerning the same product.







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