

QUICKPRIME 1K-PU

UNIVERSAL SF (SOLVENT FREE)

1. CHARACTERISTICS

Quick Prime 1K-PU universal SF is a single component, solvent free, polyurethane based primer. Being solvent free it is easy to handle and store and presents no health and safety issues on industrial and mining sites. After application the PU-primer chemically crosslinks by absorbing the moisture from the air and from the substrate in the case of concrete.

Quick Prime 1K-PU universal SF can be used for the production of a levelling mortar and scraping compound.

Quick Prime 1K-PU universal SF can be used as a "holding" primer on metallic surfaces preventing surface corrosion until a final top coat is applied

2. FEATURES

- ✓ SF = Solvent free primer system, contains no organic solvent.
- ✓ Ideal general purpose primer for VIP coating systems.
- ✓ Excellent bonding strength on dry to damp concrete substrates and also on metallic substrates
- ✓ Good moisture barrier properties, (not a water vapour barrier)
- ✓ Inhibits water migration via capillary action through pores of concrete.
- ✓ Resistant to dilute bases, acids, water-based salt solutions and lubricants.
- ✓ Good penetration of concrete substrates.
- ✓ Low viscosity and therefore a good brushability and practical spreading rate
- ✓ Superior weatherability.
- ✓ High impact resistance

3. TYPICAL USES

- ✓ Adhesive primer for VIP Elastomeric coating systems.
- ✓ Adhesive primer for GRP-composite materials (based on EP-VE-resins)
- ✓ Binding agent for cement repair mortars.
- ✓ Moisture barrier for composite and laminated wood boards.
- ✓ Primer for damp concrete.
- ✓ Temporary holding primer for corrosion protection of blasted metal substrates.

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4. PROCESSING PROPERTIES	DATA
Mixing Ratio (A:B)	NA - single component product
Consumption on steel / concrete [g/m ²]	Approx. 50 – 150 / approx. 150 - 350
Recommended thickness [µm]	Approx. 30 - 100; (dependent of the porosity of the surface)
Numbers of layer	1
*Pot life [min.]	12
Tack-free-time [h]	Steel: 2 Concrete: 0,5 – 2
*Overcoat window [h]	Steel: max. 48 Concrete: max. 72 (dependent of the humidity in the concrete)
Walkable [h]	Dependent of the surrounding conditions and the humidity of the concrete
Temperature range for application (ambience) [°C]	+5 - +35
Temperature range for application (substrate) [°C]	+5 - +35
Maximal relative air humidity for application [%]	98
Pay attention to the dew point limit	min. 3K > DP (dew point)
Preconditions of the substrate: >> Steel	SA 21/2 / Medium G / RZ (min.) ≥ 60µm
>> Concrete	min. C20/25 / compressive strength > 25 N/mm ² / tensile strength > 1,5 N/mm ²
>> Floating screed	min. EN13813 CT-C25-F4
>> Plaster	P III
>> Residual moisture	< 8 -10%

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5. PHYSICAL PROPERTIES	DATA	
Chemical Base	-	Mod. MDI-Prepolymer Solvent Agents: none
VOC-content	DIN EN ISO 11890-1 / ASTM D-1259	0%
Solids content	DIN EN 827 / ASTM D-2697	100%
Colour	-	Brownish, transparency
Viscosity [mPa*s] @ 25°C	DIN EN ISO 2884-2 / ASTM D-4878	150 – 250
Density [g/cm ³] @ 20°C	DIN EN ISO 2811-1 / ASTM D-1217	1,16 ± 0,02
Pull off strength [N/mm ²]	DIN EN ISO 4624 / ASTM D-4541	Steel: ≥ 6 Concrete: ≥ 1,5
Max. Process temp. [°C]	ISO 11346 / ASTM D-2485	Wet: 45 Dry: 130 Peak temperature dry: 150
Storage conditions [°C]	DIN EN 12701 / ASTM	10 – 30 (in closed original drums, stored at dry and well ventila- ted place; beware of freezing)
Shelf life	-	Approximately 12 months

*) All data measured at 23°C @ 50%rH. Meanderings at different ambience- and processing parameters have to be taken into account.

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6. APPLICATION NOTES

QuickPrime 1K Universal SF primer can be applied using a roller or alternatively by spraying with a conventional airless sprayer.

IMPORTANT: Quick Prime 1K-PU universal SF has to be „tack free“ before over coating (check by the back of the finger)!

The drying times depend naturally on the climate and environmental influences, e.g. ambient temperature, relative humidity of air and ventilation etc.

Therefore the times specified can only be used as guidelines. The exact times have to be determined by testing on site.

7. FORM OF DELIVERY

Please see our price list for respective packaging units.

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 testing, to determine the 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. These products require specialized equipment and skills to apply. It is the purchaser's responsibility to ensure that they have the necessary equipment, skills and experience to apply these products. 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. Technical and application information is provided for the purpose of establishing a general profile of the material and application parameters. Test performance results were obtained in a controlled environment and VIP makes no claim that these tests or any other tests can be accurately reproduced in all environments.

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