

## QUICKPRIME 1K-PU

## UNIVERSAL (SOLVENT BORNE)

### 1. CHARACTERISTICS

**Quick Prime 1K-PU universal** is a single component, solvent borne polyurethane based primer. After application the solvent evaporates and the remaining chemical crosslinks by absorbing the moisture from the air and from the substrate in the case of a concrete substrate.

**Quick Prime 1K-PU universal** is designed to soften and prepare existing coatings before over coating with new coatings.

**Quick Prime 1K-PU universal** is designed as an intermediary primer between subsequent VIP elastomeric coatings.

It is ideal for priming "overlap junctions" when spraying large projects that cannot be completed in one spraying application.

**Quick Prime 1K-PU universal** is also an excellent primer for blasted steel surfaces not subject to high temperature submersion applications.

### 2. FEATURES

- ✓ Ideal intermediary primer between coats of VIP's elastomeric coatings.
- ✓ Excellent bonding strength on existing VIP coatings and metallic substrates.
- ✓ Ideal primer for steel applications involving impact and abrasion when used with VIP Elastomeric coatings.
- ✓ Good flexibility and impact resistance

### 3. TYPICAL USES

- ✓ Intermediary primer between coats of VIP Elastomeric linings that have exceeded over coat windows.
- ✓ Primer between old elastomeric coatings and new elastomeric coatings.
- ✓ Primer for GRP-composite materials (based on EP- VE-resins)
- ✓ Primer for steel applications to be overcoated with VIP elastomeric coatings.

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4. PROCESSING PROPERTIES	DATA
Mixing Ratio (A:B)	NA - single component product
Consumption on steel / concrete [g/m <sup>2</sup> ]	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: 1      Concrete: 0,2 - 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 <sup>2</sup> / tensile strength > 1,5 N/mm <sup>2</sup>
>> Floating screed	min. EN13813 CT-C25-F4
>> Plaster	P III
>> Residual moisture	< 8 -10%

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5. PHYSICAL PROPERTIES	DATA	
Chemical Base	-	MDI-Prepolymer Solvent Agents: Ethylbenzene / Xylene
VOC-content	DIN EN ISO 11890-1 / ASTM D-1259	494 g/l
Solids content	DIN EN 827 / ASTM D-2697	50%
Colour	-	Brownish, transparency
Viscosity [mPa*s] @ 25°C	DIN EN ISO 2884-2 / ASTM D-4878	100 – 200
Density [g/cm <sup>3</sup> ] @ 20°C	DIN EN ISO 2811-1 / ASTM D-1217	1,00 ± 0,02
Pull off strength [N/mm <sup>2</sup> ]	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 PU Universal** can be applied using a standard paint roller or using a conventional airless spray unit.

When using **QuickPrime 1K PU Universal** take all necessary precautions applicable to using solvent driven products. Ensure adequate ventilation is made available, keep away from any naked flames or sparks. Take special care when working in confined areas – ensure there is forced ventilation. Avoid all ignition sources.

**IMPORTANT: Quick Prime 1K-PU universal has to be „tack free“ before over coating (check by 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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