

## Quick Prime 2K-Epoxy SF-Fast (solvent free) – Primer & Moisture Barrier

### 1. Characteristic:

**Quick Prime 2K-Epoxy SF-Fast** is a two-component modified epoxy resin for the priming of metallic and mineral surfaces and substrates. Furthermore it can be used for the production of levelling mortar and scraping compound and also for the pre-treatment of surfaces (generation of a bonding bridge) for repeating coating systems. **Quick Prime 2K-Epoxy SF-Fast** acts for metallic surfaces like steel as temporarily corrosion protection layer and for mineral undergrounds as hydrophobising of the surface and a solidification of the substrate. For mineral undergrounds it reduces the danger of shrinking and creation of cracks and closes the surface without any pores. In the cured state **Quick Prime 2K-Epoxy SF-Fast** functions as barrier against back moisture and water vapour.

Further more the primer **Quick Prime 2K-Epoxy SF-Fast** can be faster overcoated with coating systems like epoxy, polyurea or polyaspartics, because of its strongly reduced tack-free-times.

### 2. Features:

- Solvent free (SF)
- Significant shorter tack-free-times and therefore a quicker project close-out
- Excellent bonding both on dry to damp mineral undergrounds like concrete
- Superior adhesion behaviour to metallic substrates like steel and stainless steel
- Ideal basic primer for POLYUREA coating systems
- Excellent bonding both on dry to damp mineral undergrounds and also on metallic substrates
- Barrier properties against moisture and water vapour
- Water blocking abilities and prevents capillary activated creation of pores
- Resistant to bases, acids, water-based salt solutions, lubricants and certain solvents
- Good penetration of substrates like carbon steel and concrete
- Low viscosity and therefore a good brushability and practical spreading rate
- Free of VOC

### 3. Typical Uses

- As a moisture blocking primer on concrete and cement-based screeds subject to moisture
- For the pre-treatment for following coating systems based on Epoxy or Polyurea
- As an high effective protection against lumps
- As a primer for still damp concrete
- For the following coating or flooring with standard materials
- As temporary corrosion protection for metal substrates like e.g. abrasive blasted steel

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**POLYUREA**

<b>4. Processing properties:</b>	<b>Datas</b>		
Mixing Ratio (A:B)	Comp. A to Comp. B = 100 : 51 per weight		
Consumption on steel / concrete [g/m <sup>2</sup> ]	Approx. 100 – 250 / approx. 250 - 450		
Recommended thickness [µm]	Approx. 30 - 100; (dependent of the porosity of the surface)		
Numbers of layer	1 (multiplex to achieve water barrier properties)		
*Pot life [min.]	30 – 45 (reference beaker)		
Tack-free-time [h]	20°C: 3 - 4	30°C: 1 - 2	
*Overcoat window [h]	Steel: max. 24 - 48	Concrete: max. 24 - 48	
Walkable [h]	20°C: 3 - 4	30°C: 1 - 2	
Hardness/curing at 20°C [Shore D]	70- 80		
Temperature range for application (ambience) [°C]	+5 - +35		
Temperature range for application (substrate) [°C]	+5 - +35		
Maximal relative air humidity for application [%]	80 - 85		
Pay attention to the dew point limit	min. 3K > DP (dew point)		
Preconditions of the substrate:			
>> Steel	SA 21/2 / Medium G / R <sub>z</sub> (min.) ≥ 60µm		
>> Concrete	min. C20/25 / compressive strength > 25 N/mm <sup>2</sup> / tensile strength > 1,5 N/mm		
>> Floating screed	min. EN13813 CT-C25-F4		
>> Plaster	P III		
>> Residual moisture	< 8 -10%		

<b>5. Physical Properties:</b>	<b>Datas</b>			
Chemical Base	-	Comp. A: EP-resin based on Bisphenol A Comp. B: mod. Cycloaliphatic amin		
VOC-content	DIN EN ISO 11890-1 / ASTM D-1259	0%		
Solids content	DIN EN 827 / ASTM D-2697	100%		
Colour	-	miscellaneous (on request)		
Viscosity [mPa*s] @ 25°C	DIN EN ISO 2884-2 / ASTM D-4878	Comp. A: 3.000 – 4.000	Comp. B: 100 – 200	Mix: ca. 900
Density [g/cm <sup>3</sup> ] @ 20°C	DIN EN ISO 2811-1 / ASTM D-1217	Comp. A: 1,13 – 1,17	Comp. B: 1,04 – 1,08	Mix: 1,12
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: 60	Dry: 150	Peak temperature dry: 180
Storage conditions [°C]	DIN EN 12701 / ASTM	20 – 30 (in closed original drums, stored at dry and well ventilated place; beware of freezing)		
Shelf life	-	12 months		

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

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### 6. Hints for the application:

Before using both components have to be stirred well and then component B has to be filled into component A completely and mixed carefully with an adequate agitator.

The primer should be applied preferably by roller or alternatively by spraying in a conventional way with air pressure or airless application.

**IMPORTANT: Quick Prime 2K-Epoxy SF-Fast 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:

Product name	Unit	Ref.-No.
Quick Prime 2K-Epoxy SF-Fast Comp. A+B	12 kg / 6,1 kg	On Request
Quick Prime 2K-Epoxy SF-Fast Comp. A+B	5 kg / 2,8 kg	On Request

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 users 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. 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.

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Valid is only the actual version of this technical data sheet in each case.

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