

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

1. Characteristic:

Quick Prime 2K-Epoxy SF 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** 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** functions as barrier against back moisture and water vapour.

2. Features:

- **Solvent free (SF)**
- **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 dilute bases, acids, water-based salt solutions and lubricants
- Good penetration of substrates like carbon steel and concrete
- Low viscosity and therefore a good brushability and practical spreading rate
- Free of VOC
- No crystallising of the epoxy resin

3. Typical Uses

- As a moisture blocking primer on concrete and cement-based screeds subject to moisture
- Ceramics finishes, multi-layered wood boards that are to be coated with VIP Polyurea Coatings.
- 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

4. Processing properties:	Datas		
Mixing Ratio (A:B)	Comp. A to Comp. B = 100 : 58 per weight		
Consumption on steel / concrete [g/m ²]	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)		
Gelification time at 20°C [min.]	40 - 60		
Over coating cycle min. [h]	10°C: 16 – 24	20°C: 6 - 8	30°C: 2 - 4
Over coating cycle max. [h]*	Steel: 48	Concrete: 72 (also „wet in wet“ is possible)	
Walkable [h]	10°C: 16 – 24	20°C: 6 - 8	30°C: 2 - 4
Hardness/Curing at 5°C [Shore D]	1 day: n.m.	3 days: ca. 25 -30	7 days: 50 - 55
Hardness/curing at 20°C [Shore D]	1 day: 50 - 55	3 days: 70 - 75	7 days: 75 - 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 _z (min.) ≥ 60µm		
>> Concrete	min. C20/25 / compressive strength > 25 N/mm ² / tensile strength > 1,5 N/mm		
>> Floating screed	min. EN13813 CT-C25-F4		
>> Plaster	P III		
>> Residual moisture	< 8 -10%		

5. Physical Properties:	Datas		
Chemical Base	-	Comp. A: EP-resin based on Bisphenol A/F Comp. B: Formulated Polyaminoamidadduct	
VOC-content	DIN EN ISO 11890-1 / ASTM D-1259	0%	
Solids content	DIN EN 827 / ASTM D-2697	100%	
Colour	-	greenish	
Viscosity [mPa*s] @ 25°C	DIN EN ISO 2884-2 / ASTM D-4878	Comp. A: 800 – 1.000	Comp. B: 600 – 1.400 Mix: 600 -900
Density [g/cm ³] @ 20°C	DIN EN ISO 2811-1 / ASTM D-1217	Comp. A: 1,10 – 1,14	Comp. B: 1,02 – 1,04 Mix: 1,09
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: 60	Dry: 150 Peak temperature dry: 180
Storage conditions [°C]	DIN EN 12701 / ASTM	10 – 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 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 Comp. A+B	12 kg / 7 kg	On Request
Quick Prime 2K-Epoxy SF Comp. A+B	5 kg / 2,9 kg	On Request
Quick Prime 2K-Epoxy SF Comp. A+B	1 kg / 0,58 kg	On Request

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

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