

QUICK PRIME

2K EPOXY SF 21 (SOLVENT FREE)

1. CHARACTERISTICS

Quick Prime 2K Epoxy SF 21 is a two-component modified epoxy resin specifically designed for sealing and priming concrete substrates. It's unique formulation allows for full curing on concrete substrates that have relatively high residual moisture content. In the cured state **Quick Prime 2K Epoxy SF 21** functions as barrier against residual moisture and water vapour.

Quick Prime 2K Epoxy SF21 is low in viscosity making it easy to apply evenly and quickly and allows for deep penetration of the primer into the concrete substrate. This deep penetration not only improves adhesion but helps to "seal" the concrete minimising outgassing and blistering problems often associated with over coating with hot spray coating systems. Although specifically designed for concrete substrates **Quick Prime 2K Epoxy SF21** also displays excellent adhesion to correctly prepared steel substrates.

Quick Prime 2K Epoxy SF21 can be mixed with clean dry quartz sand to make a repair mortar or levelling screed

2. FEATURES

- ✓ Solvent free (SF)
- ✓ Mix ratio ratio is 2 : 1 (comp. B to comp. A) by volume
- ✓ Volumetric mix ratio makes on-site mixing easy and convenient
- ✓ Low viscosity results in easy application and deep penetration into substrate
- ✓ Fast tack-free and overcoat times and a long overcoat window
- ✓ Excellent bonding on dry to damp concrete substrates
- ✓ Excellent adhesion to correctly prepared metallic substrates
- ✓ Provides a barrier to residual moisture and water vapour.
- ✓ Resistant to bases, acids, water-based salt solutions, lubricants and many solvents.
- ✓ Free of VOC's

3. TYPICAL USES

- ✓ As a moisture blocking primer on concrete and cement-based screeds subject to high residual moisture content.
- ✓ As a repair screed when mixed with dry, clean quartz sand.
- ✓ As temporary corrosion protection for blasted metal substrates.
- ✓ As a metal Primer when top coated a high build VIP protective coating

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4. PROCESSING PROPERTIES	DATA
Mixing Ratio (A:B)	Component - B to Comp. A = 2 : 1 by volume
Consumption on steel / concrete [g/m ²]	Approx. 100 / approx. 250 (will vary depending on porosity)
Recommended thickness [µm]	Approx. 30 - 100; (depending on the porosity of the surface)
Numbers of layer	1 (multiple layers to achieve water barrier properties)
*Pot life [min.]	30 (reference beaker)
Tack-free-time [h]	20°C: 2 - 2,5 30°C: 1 - 2
*Overcoat window [h]	Steel: max. 24 - 48 Concrete: max. 24 - 48
Walkable [h]	20°C: 2 - 2,5 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 / RZ (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%

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5. PHYSICAL PROPERTIES	DATA			
Chemical Base	-	Epoxy		
VOC-content	DIN EN ISO 11890-1 / ASTM D-1259	0%		
Solids content	DIN EN 827 / ASTM D-2697	100%		
Colour	-	Clear / straw		
Viscosity [mPa*s] @ 25°C	DIN EN ISO 2884-2 / ASTM D-4878	Comp. A: 300 - 400	Comp. B: 2.000 – 2.800	Mix: ca. 1.100
Density [g/cm ³] @ 20°C	DIN EN ISO 2811-1 / ASTM D-1217	Comp. A: 1,08 – 1,12	Comp. B: 1,13 – 1,17	Mix: 1,13
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	20 – 30 (in closed original drums, stored at dry and well ventilated place; avoid 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

Before using both components have to be individually power stirred. After mixing component A and Component B together the combined mix must be powered stirred.

The mixing ratio is 100 parts B-component to 50 parts A-component or 2 parts B-component to 1 part A-component by volume. Graduated beakers / containers should be used when measuring components.

QuickPrime 2K-Epoxy SF 21 can be applied by roller or alternatively by spraying in a conventional way with air pressure or airless application. When spraying mix small batch lots to avoid cross linking occurring in the spray pot. When applying two coats the first coat of **QuickPrime 2K-Epoxy SF 21** must be tack free before applying the second coat.

IMPORTANT: Quick Prime 2K-Epoxy SF 21 has to be „tack free“ prior to over coating.

The drying times depend naturally on 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.
Smaller kits available at request.**

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