



THE Sikalastic® Rapid 722 SEALING SYSTEM protects reliably the building structure and thus your investment. With Sikalastic® Rapid-722 numerous challenges can be solved. **Sikalastic® Rapid-722 Detail** is a two-component, fastcuring polymethyl methacrylate reaction resin, fleece-armoured sealing system for durable, highly flexible sealing of heavily stressed tower foundations and segment flanges. The ETA approval and the general building authority approval Germany are available.

APPLICATIONS

- Sealing of heavily stressed tower foundations and segment flanges
- Sealing of working target cracks and expansion joints
- Also suitable for sealing buildings and roofs
- Can be used for joints made of WU concrete
- Sealing of surfaces or detailed connections

RELIABLE AND DURABLE

■ For surfaces and complicated details

LOW TEMPERATURE FLEXIBLE

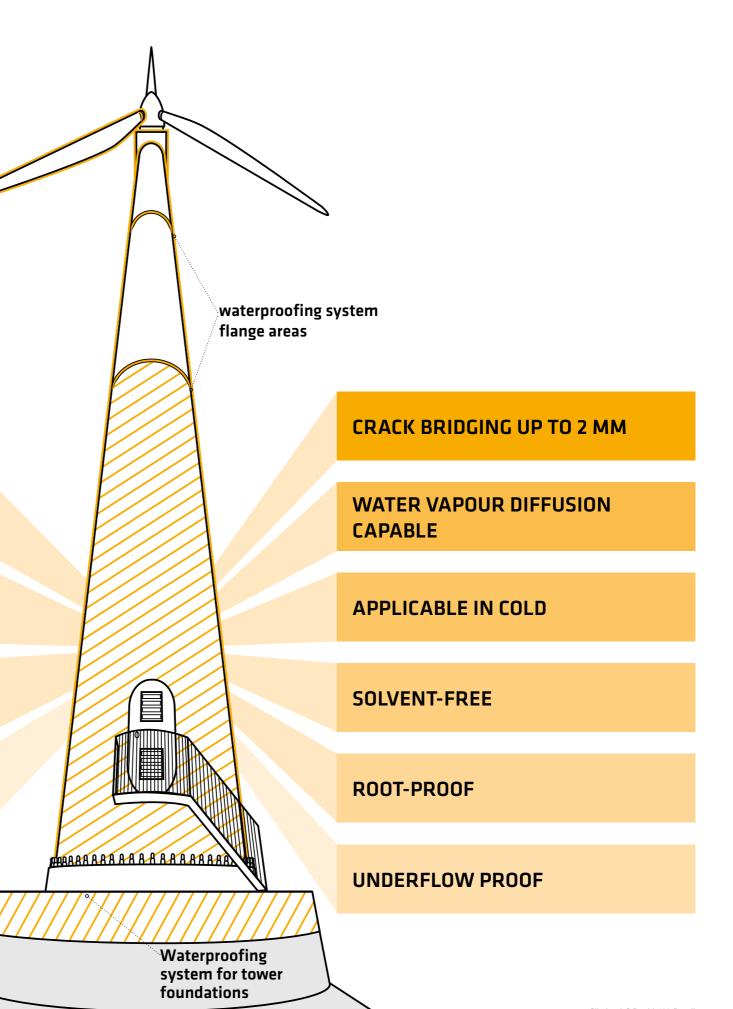
■ Fast-curing, also at low temperatures -5 °C

WEATHER-TOLERANT

- Can be processed at temperature and humidity fluctuations
- Extremely short ventilation times

VERY DURABLE

- Against most acids and alkalis
- Against UV hydrolysis and alkaline loading



SYSTEM SETUP FOUNDATION



- 1 WU concrete mechanically pre-treated
- 2 Sikalastic® Rapid Primer Concrete or Primer see Primer Chart n. 8/9
- Joint if available: filled with PE round cord, sealed with Sikaflex® PRO-3
- 4 Joint if available: joint sliding tape stone tape with PE surface
- 5 Sikalastic® Rapid-722 Detail/Fleece-110/ Sikalastic® Rapid-722 Detail

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- Sikalastic® Rapid-722 Detail/Fleece-110/ Sikalastic® Rapid-722 Detail
- Optional protective layer sealing: Sikalastic® Rapid-722 Detail scattered with quartz sand Sikalastic® Rapid-722 Detail

COMPONENTS

PRIMER AND LEVELING

Sikalastic® Rapid Primer concrete



Container 10 kg Incl. 300 g KATpowder

Sikalastic® Rapid scratch filler



Container 10 kg Incl. 300 g KATpowder

ACCESSORIES

Sikalastic® Rapid cleaner



Container 10 L

Sikalastic® Rapid Primer Metal



Container 1 L



spray can 0.5 L

SEALING RESIN AND SYSTEM CARRIER INSERT

Sikalastic® Rapid-722 Detail sealing resin



Container 10 kg Incl. 200 g KATpowder

Sikalastic® Rapid Fleece-110



safety data sheets



product data shee



COLOURS

slate grey similar to RAL 7015

> agate grey similar to RAL 7038

telegrau 4

similar to

RAL 7047

light grey

similar to

RAL 7035

PROCESSING CONDITIONS

Product	air temperature min max	ground temperature min max	material temperature min max
Sikalastic® Rapid Primer Concrete	+3 °C to +35 °C	+3 °C to +50 °C	+3 °C to +30 °C
Sikalastic® Rapid scratch filler	+3 °C to +35 °C	+3 °C to +50 °C	+3 °C to +35 °C
Sikalastic® Rapid-722 Detail sealing resin	-5 °C to +35 °C	+3 °C to +50 °C	+3 °C to +30 °C
Sikalastic® Rapid Primer Metal / Metal spray	+3 °C to +35 °C	+3 °C to +35 °C	+3 °C to +30 °C

VERBRÄUCHE

Product	ground type		
Ploudet	smooth	fine sandy	rough
Sikalastic® Rapid Primer Concrete	approx. 0.4 kg/m²	approx. 0.5 kg/m²	approx. 0.8 kg/m²
Sikalastic® Rapid scratch filler	approx. 0.8 kg/m²	approx. 0.9 kg/m²	approx. 1.0 kg/m²

Sikalastic® Rapid-722 Detail sealing resin	
Sealing resin with dry layer thickness at least 2.1 mm	at least 2.5 kg/m²
Roll template for quartz sand insertion	at least 1.0 kg/m²
Sealing	approx. 0.7 kg/m ²

Sikalastic® Rapid Primer Metal	approx. 0.2 kg/m²
Sikalastic® Rapid Primer Metal Spray	approx. 0.1 l/m ²
Oven-dried quartz sand grain size 0.7-1.2 mm	approx. 1.5 kg/m²

Fleece overlap	
Sikalastic® Rapid-722 Detail on Sikalastic® Rapid-722 Detail	at least 50 mm
Sikalastic® Rapid-722 Detail on other substrates	at least 100 mm

PRIMER RECOMMENDATION

GROUND TYPE	PREPARATION Always demarcate the area to be sealed by means of masking	PRIMING
Concrete	 remove loose parts grind with diamond cup wheel clean If necessary, level with scratch filler 	Sikalastic® Rapid Primer Concrete* approx. 0.6 kg/m² minimum waiting time 20 min**
Steel coated (powder-coated steel) galvanized steel	■ grind with abrasive paper grain size 80-150 ■ clean/degrease with Sikalastic® Rapid Cleaner	with coverage <5cm Sikalastic® Rapid Primer Metal/Metal spray approx. 0.2 kg/m² minimum waiting time 2 hours maximum waiting time 8 hours** with coverage >5 cm no primer necessary
Old waterproofing PMMA based	 thoroughly rub off with Sikalastic® Rapid Cleaner ventilate for at least 15 minutes if necessary, grind grain size 40-60 	No primer necessary

^{*}additionally with Sikalastic® Rapid KATpowder according to the dosing quantity required on site, see Product Data Sheet.

**+20 °C/50 % rel. humidity. If work is interrupted for longer than the maximum waiting time, the primer must be removed and re-primed.

CHEMICAL RESISTANCE

Depending on the duration of exposure and concentration, discoloration may occur.

Sikalastic®-722 Rapid Detail is resistant to the following media		
A cetic acid 10 %	Hydrogen peroxide 10 %	Potash
Ammonia 10 %	Kerosene	Potassium chloride
Ammonium chloride	L actic acid 30%	R icinus oil
Ammonium sulphate	Lemon juice	S eawater
Animal fats	Linseed oil	Sodium chloride
Apple juice	Lubricants	Sodium sulphate
C austic soda 50%	Mineral oil	V egetable fat
Calcium chloride	O live oil	Vegetable juice
Chlorinated lime	Orange juice	Washing powder
Formic acid 10 %	P araffin oil	Washing-up liquid
H ydrochloric acid 30%	Petroleum	Wine
Hydraulic oil	Phosphoric acid	

Sikalastic® Rapid-722 Detail EVALUATION AND PREPARATION OF THE SUBSTRATE

WHETHER OLD OR NEW – correct substrate analysis and preparation are the base of every successful waterproofing measure. A thorough examination is the decisive prerequisite for determining the most suitable method for preparation of the substrate and an optimal waterproofing system.

SUBSTRATE STRENGTH ANALYSIS

- On cementitious substrates, the compressive strength should be at least 25 N /mm².
- Substrates to be sealed must be load-bearing.



DEW POINT ANALYSIS

- During application and curing, the substrate temperature must be at least 3 K above the dew point temperature.
- Protect from condensation during both phases.



ADHESIVE TENSILE STRENGTH ANALYSIS

- The surface tensile strength for cement-bound substrates must be greater than 1.5 N/mm².
- The adhesive tensile strength is determined by means of a stamp peel test.



4 SUBSURFACE MOISTURE ANALYSIS

- Substrate must be dry.
- E.g. cementitious substrates:≤ 4 % (mass %) measurement CM device.



DRYING, CLEANING AND TESTING PREPARATION

- In principle, the substrates to be sealed must be loadbearing, dry and free from adhesion substances.
- The substrates must be prepared with suitable preparation. Loose parts, dirt, weathering, dust, oil, grease, etc. must be removed.
- Trial and adhesion test surfaces are recommended.



PROCESSING WATERPROOFING SYSTEM ON THE FOUNDATION BASE



Check condition of foundation base. If required, repair concrete.



If necessary, delimit the area to be sealed with adhesive tape to demarcate.



Substrate preparation and cleaning with suitable measures. See p. 9/16



Laminate fleece without bubbles and wrinkles.



Second layer: 1/3 from total consumption per m²



Now the seal is ready for operation.



If necessary, fill joint with PE cord, seal with Sikaflex® PRO-3 and decouple with decouple by means of joint sliding tape.



Determination of the measured values adhesive pull, residual moisture and dew point



Prime according to p. 8/9.



Prepare fleece cuts



Mixing the waterproofing resin



First layer: 2/3 of total consumption per m²

PROCESSING OPTIONAL: PROTECTIVE OR USEFUL LAYER



Mask joint area with stone tape PE surface. Roll underlayment min. 1.0 kg/m²



Throw in quartz sand 0.7–1.2 mm wet in wet, grain to grain.

Tape joint area remove immediately afterwards.



Apply sealer approx. 0.7 kg/m²

EXAMPLES OF TOOL SELECTION



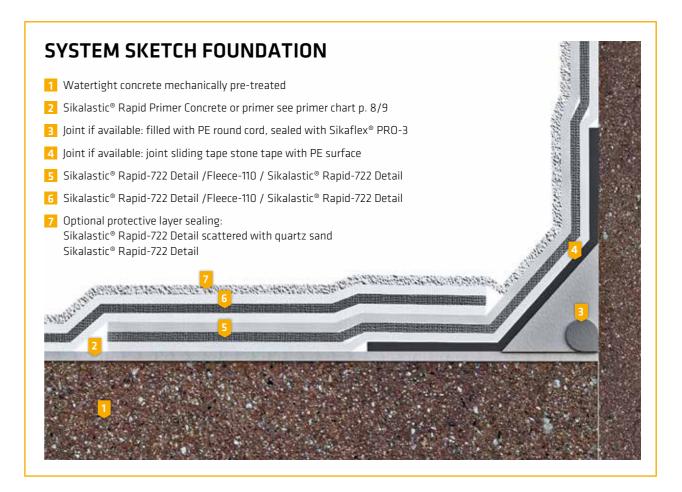


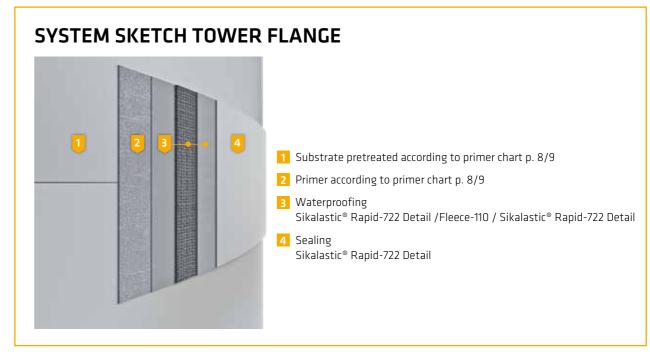






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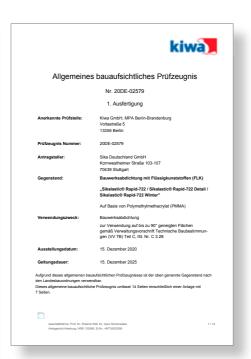




Sikalastic® Rapid-722 Detail PERFORMANCE DATA

DE/E1 PMMA-2K-S-W3-P4-S1, S2, S3, S4-TL4, TH4-DIN 18531-2		
ETA No. 19/0242 according to ETAG 005.		
Useful life	W3 (expected useful life 25 years)	
Climate zone	M-S (temperate and extreme climate)	
Roof pitch	S1-S4 (all roof pitches)	
Payload	P1-P4 (low to high)	
Surface temp. low	TL4 (-30 °C)	
Surface temp. high	TH4 (+90 °C)	
Fire behavior according to EN 13501-1	Class E	
Exposure to external fire according to CEN/TS 1187	B _{roof} (t1)	
Building waterproofing in the field of application DIN 18533-3 Test certificate number: 20DE-02579	Crack-bridging up to 2 mm	





CONTACT

NUMEROUS WATERPROOFING CHALLENGES for wind turbine foundations can be solved with Sikalastic® Rapid-722 Detail.

With our Sikalastic® technology, the functionality is maintained and the service life is extended – pragmatic, uncomplicated and of high quality.

This is how our qualified sealing specialists work after many years of experience.

We would like to advise you:

Thomas PollerKey Account Manager Sikalastic®
E-Mail: poller.thomas@de.sika.com



Daniel Sauer
Key Account Manager Sikalastic®
E-Mail: sauer.daniel@de.sika.com





WORLDWIDE SYSTEM SOLUTIONS FOR CONSTRUCTION AND INDUSTRY



CONCRETE



WATERPROOFING



ROOFING



FLOORING



CORROSION AND FIRE PROTECTION



SEALING AND BONDING



REFURBISHMENT



BUILDING FINISHING



INDUSTRY

As a subsidiary of the globally operative Sika AG, Baar/Switzerland, Sika Deutschland GmbH is one of the leading suppliers of building chemical product systems as well as sealants and adhesives for industrial manufacturing.





