

PRODUCT DATA SHEET

Sikadur® WDE Primer

MOISTURE INTENSIVE EPOXY RESIN

DESCRIPTION

Sikadur® WDE Primer a two-component, high solids epoxy resin with excellent moisture-insensitive characteristics and fast cure at low temperatures.

USES

Sikadur® WDE Primer may only be used by experienced professionals.

Sikadur® WDE Primer is the primer to use with Sikagard® CRV 10 or CRV 20. It is also especially performing on damp surfaces prior to Sika epoxy system applications.

CHARACTERISTICS / ADVANTAGES

- Cures down to 32 °F (0 °C).
- Can be used in cold rooms.
- Ideal for shutdown or fast turnaround projects.
- Good resistance to a wide variety of chemicals, acids, organic acids and alkalis.

PRODUCT INFORMATION

Packaging	1 gal (3.75 L) Component A: 1 gallon plastic pail Component B: 1 pint plastic container		
Appearance / Colour	Clear, Light Gray		
Shelf life	2 years in unopened packaging.		
Storage conditions	Store dry at 40–90 °F (5–32 °C). Condition product between 65–85 °F (18–30 °C) before using.		
Density	Resin A 9.34 b/gal. (1.12 kg/L) 77 °F (25 °C) and 50 % R.H.	Hardener B 8.73 b/gal. (1.05 kg/L)	Mixed A+B 9.19 b/gal. (1.1 kg/L)
Solid content by weight	Resin A -	Hardener B -	Mixed A+B 100 %
Viscosity	Resin A 600 cps 77 °F (25 °C) and 50 % R.H.	Hardener B 2000 cps	Mixed A+B 900 cps

APPLICATION INFORMATION

Mixing Ratio	A:B = 3:1 by volume		
Pot Life	Resin A	Hardener B	Mixed A+B
	-	-	8 minutes
Pot Life, 7.05 oz (200 g)			
Waiting Time / Overcoating	Waiting time between coats, 70 °F (21 °C)		
		Minimum	Maximum
WDE Primer on WDE Primer	Neat	6 h	24 h
Sikafloor® CRV 10/20 on WDE Primer - 10 h/50 °F (10 °C)	Broadcast	4 h	indefinite
Sikafloor® CRV 10/20 on CRV 10/20	Neat WDE Primer	6 h	
Sika epoxy systems on WDE Primer - 24 h/32 °F (0 °C)	Broadcast WDE Primer	4 h	
Sikadur® WDE Primer mortar on WDE Primer 16 h/32 °F (0 °C)	-	1.5 h	24 h
	-	6 h	24 h
	4 h	-	-

*Note - If it is over-coated too quickly with Sikagard® CRV 10/20, it may be softened. Be cautious and if in doubt do a spot check.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by shot blasting or equivalent mechanical means (CSP-3 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. Over "blasting" will result in reduced coverage rates of the primer and/or subsequent top-coats. It is also possible that the texture of the "shot-blast" pattern may show through the last coat. This is known as "tracking". The compressive strength of the concrete substrate should be at least 3500 psi (24 MPa) at 28 days and at least 250 psi (1.7 MPa) in tension at the time of application of Sikadur® WDE Primer.

MIXING

Empty component B into component A container. Mix the combined components for at least 3 min using a low-speed drill (300–450 rpm) to minimize entrapping air. Use an Exomixer type mixing paddle (recommended model) suited to the volume of the mixing container. During the mixing operations, scrape down the

sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. Mix only that quantity that can be used within its pot life.

APPLICATION

Primer - The mixed resin should be applied at 160 ft²/gal. (4 m²/L) using a brush or roller when used as a primer for other Sika products. When it is used as a first coat of a build up system it is normal to broadcast Barnes # 51 or # 71 sand to saturation at a rate of 2–3 lb/10 ft² (1–1.5 kg/m²) and allow to dry before proceeding to the next step.

IMPORTANT CONSIDERATIONS

- Do not thin with solvents.
- Not recommended for repairs applied underwater.
- Minimum/Maximum substrate temperature: 32/85 °F (0/30 °C).
- Maximum relative humidity: 85 %.
- Substrate temperature must be at least 5 °F (3°C) above measured dew point.
- Conduct quantitative anhydrous calcium chloride testing in accordance with ASTM-F1869. Maximum acceptable test result is 3 pounds per 1,000 ft² per 24 hours. Determine the surface moisture content by using an impedance moisture meter designed for use on concrete as detailed in ASTM E-1907. Acceptable test results shall be 4 % by mass or less. If over, use Sikafloor® EpoCem 81/82.
- Freshly applied Sikadur® WDE Primer should be protected from dampness, condensation and water for at least 24 hrs.

- Do not thin this product. Addition of thinners will slow the cure and reduce the ultimate properties of this product.
- This product is not designed for exterior use, immersion, or any use where moisture can reach the underside of the resurfacer.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. UV resistant, light stable topcoats are available where ultimate color/clarity retention is required.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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SikadurWDEPrimer-en-(08-2018)-1.pdf

PRODUCT DATA SHEET
Sikadur® WDE Primer
August 2018, Version 01.0
020812040020000037

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