

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.
Where to Use	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.
Advantages	<ul style="list-style-type: none"> ■ 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.

How to Use

Surface

Preparation

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 topcoats. 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.

Typical Data

Packaging	1 gal (3.75 L) Component A: 1 gallon plastic pail Component B: 1 pint plastic container		
Colors	Clear, Light Gray		
Shelf Life	2 years in unopened packaging. Store dry at 40° - 90°F (5° - 32°C). Condition product between 65° - 85°F (18° - 30°C) before using.		
Mixing Ratio	A:B = 3:1 by volume		
Properties at 77°F (25°C) and 50% R.H.			
Component	Resin A	Hardener B	Mixed A+B
Specific gravity, lb/gal. (kg/L)	9.34 (1.12)	8.73 (1.05)	9.19 (1.1)
Viscosity	600 cps	2000 cps	900 cps
Solids by weight	-	-	100%
Pot Life, 7.05 oz (200 g)			8 min
Waiting time between coats, 70°F (21°C)	Minimum	Maximum	
WDE Primer on WDE Primer	Neat Broadcast	6 hrs. 4 hrs.	24 hrs. indefinite
Sikafloor CRV 10/20 on WDE Primer 10 hrs/50°F (10°C)	Neat WDE Primer Broadcast WDE Primer	6 hrs. 4 hrs.	24 hrs. indefinite
Sikafloor CRV 10/20 on CRV 10/20 Sika epoxy systems on WDE Primer 24 hrs./32°F (0°C)	-	1.5 hrs. 6 hrs.	24 hrs. 24 hrs.
Sikadur WDE Primer mortar on WDE Primer 16 hrs./32°F (0°C)	4 hrs.	-	-

*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.

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 ft ² /gal. (4 m ² /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 ft ² (1-1.5 kg/m ²) and allow to dry before proceeding to the next step.
Limitations	<ul style="list-style-type: none"> ■ Do not thin with solvents. ■ Not recommended for repairs applied underwater. ■ Minimum/Maximum substrate temperature: 32°/85° (0°/30°). ■ Maximum relative humidity: 85%. ■ Substrate temperature must be at least 5° (3°) 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.
Caution	<p>Component 'A' - WARNING: IRRITANT, SENSITIZER. Contains Epoxy Resin (CAS 25085-99-8) and Aliphatic Glycidyl Ether (CAS 2461-15-6). Causes eye/respiratory irritation. May cause skin irritation. Prolonged and/or repeated skin contact may cause allergic reaction/sensitization. May be harmful if swallowed. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.</p> <p>Component 'B' - WARNING: COMBUSTIBLE, CORROSIVE, IRRITANT, SENSITIZER: Contains 4, 4'-Isopropylidenediphenol (CAS 80-05-7), Amino Silane (CAS 1760-24-3), Aminoethylpiperazine (CAS 140-31-8), Nonylphenol (CAS 25154-52-3) and Triethylene Tetramine (CAS 112-24-3). Contact with eyes and skin causes severe burns. Causes eye/skin irritation/respiratory irritation. Prolonged skin/respiratory contact may result in an allergic reaction/sensitization. Harmful if swallowed. Keep away from heat, flame, sparks, electrical equipment, or other sources of ignition. DO NOT SMOKE. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.</p>
First Aid	<p>Eyes - Hold eyelids apart and flush thoroughly with water for 15 minutes. Skin - Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation - Remove to fresh air. Ingestion - Do not induce vomiting. Dilute with water. Contact physician. In all cases contact a physician immediately if symptoms persist.</p>
Handling & Storage	<p>Component 'A': Avoid direct contact with eyes and skin. Wear chemical resistant gloves/goggles/clothing. Avoid breathing vapors. Use with adequate general and local ventilation. In absence of adequate ventilation, use properly fitted NIOSH approved respirator. Wash thoroughly after handling product. Store in a cool, dry, well ventilated area. Keep containers tightly closed.</p> <p>Component 'B': Keep away from heat, flame, sparks, electrical equipment, or other sources of ignition. DO NOT SMOKE. Use only in the presence of adequate local and mechanical ventilation. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wear personal protective equipment (chemical resistant goggles/gloves/clothing). Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse. Do not store near excessive heat or open flame as pressure may build in container causing contents to react or combust. Store in cool, dry, well ventilated area. Keep containers tightly closed.</p>

Industrial Flooring

Clean Up

Eliminate all ignition sources. **Keep away from heat, flame, sparks, electrical equipment, or other sources of ignition. DO NOT SMOKE.** Wear chemical resistant gloves/goggles/clothing. In absence of proper ventilation use properly fitted NIOSH respirator. Uncured material can be removed with approved solvent. Follow solvent manufacturer's instructions for use and warnings. Cured material (when Component 'A' is combined with Component B) can only be removed mechanically. In case of spill, ventilate area and contain spill. Collect with absorbent material. Dispose of in accordance with current applicable local, state and federal regulations.

KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY

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