

# PRODUCT DATA SHEET

## Sikadur<sup>®</sup>-58 CJR

### SEMI-FLEXIBLE EPOXY CONTROL JOINT RESIN

#### PRODUCT DESCRIPTION

Sikadur<sup>®</sup>-58 CJR is a 2-component, self-leveling, 100 % solids, flexible, control joint resin sealer and adhesive.

#### USES

- Horizontal, non-moving, interior, horizontal saw cut, preformed control and construction joints
- Facilities such as warehouses and industrial plants, where such joints are subject to load-bearing conditions involving wear and impact
- Repairing interior concrete slabs that have experienced random cracking due to shrinkage / As a semiflexible adhesive

#### CHARACTERISTICS / ADVANTAGES

- Remains semi-flexible. Does not age-harden
- Prevents deterioration of joint edges
- Excellent adhesive properties
- Ideal for use with plural injection type systems
- Shock absorbent and durable. Withstands wheel traffic and heavy loads
- Conforms to ACI 302.1R (4.10 - Joint Materials)
- Use as a tamper resistant sealant

#### PRODUCT INFORMATION

<b>Packaging</b>	10 gal. kits (2 x 5 gal. A + B)	
<b>Color</b>	Concrete Gray	
<b>Shelf Life</b>	24 months in original, unopened containers	
<b>Storage Conditions</b>	Store dry at 40–95 °F (4–35 °C). Condition material at 70–80 °F (21–27 °F) before using	
<b>Viscosity</b>	Comp. 'A'	2700 cps
	Comp 'B'	4600 cps
	Mixed	2400 cps

#### TECHNICAL INFORMATION

<b>Shore A Hardness</b>	86	(7 days at 72°F (22°C) and 50% R.H.) (ASTM D-2240)
<b>Tensile Strength</b>	450 psi (3.9 MPa)	(7 days at 72 °F (22 °C) and 50 % R.H.) (ASTM D-638)

<b>Elongation at Break</b>	80 %	(7 days at 72 °F (22 °C) and 50 % R.H.) (ASTM D-638)
<b>Tear Strength</b>	40.4 lb./in.	(7 days at 72 °F (22 °C) and 50 % R.H.) (ASTM D-624)
<b>Water Absorption</b>	0.23 %	(7 days at 72 °F (22 °C) and 50 % R.H.) (ASTM D-570) (24 Hour Immersion)

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Component 'A' : Component 'B' = 1:1 by volume.		
<b>Coverage</b>	1 gal Yield in Linear Feet with 10 % waste		
	<b>Depth/Width</b>	<b>1/8"</b>	<b>1/4"</b>
	1/2"	227	139
	3/4"	185	92
	1"	139	69
	1 1/4"	111	55
	1 1/2"	92	46
	1 3/4"	79	40
	2"	69	35
<b>Pot Life</b>	25 minutes, 8 fl. oz. (250 g)		
<b>Cure Time</b>	Shave time: ~24 Hours		
<b>Tack Free Time</b>	2.5– 3 hours		

## APPLICATION INSTRUCTIONS

uniform in color. Mix only quantity that can be applied within its pot life.

### SUBSTRATE PREPARATION

Substrate must be clean and sound. It may be dry or damp, but must be free of standing water. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. Concrete should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means. The most common method utilizes a dustless, diamond blade saw. Climate controlled rooms should be stabilized at least 14 days before application of Sikadur®-58 CJR. Priming is not required. The application of stain preventing film or waxing with Dial bar soap on surfaces adjacent to control joints may be used to prevent the occurrence of staining from joint filler overflow. A thin layer of clean, dry sand may be used to prevent the flow of joint filler into stress cracks that occur at the bottom of control joints. Do not use a compressible backer rod to stop the flow of Sikadur®-58 CJR unless the joint depth exceeds 2 in. (60 mm). Joint width should be between 1/8 in. (3.2 mm) and 3/8 in. (9.5 mm). For wider joints, please contact Sika Technical Services.

### MIXING

Pre-mix each component thoroughly before using (usually 1–3 minutes - color must be consistent). If applying without a mechanical pump, proportion equal parts by volume of Component A and Component B into clean pail. Mix thoroughly for 3 minutes with a low-speed (400–600 rpm) drill using a Sika paddle until

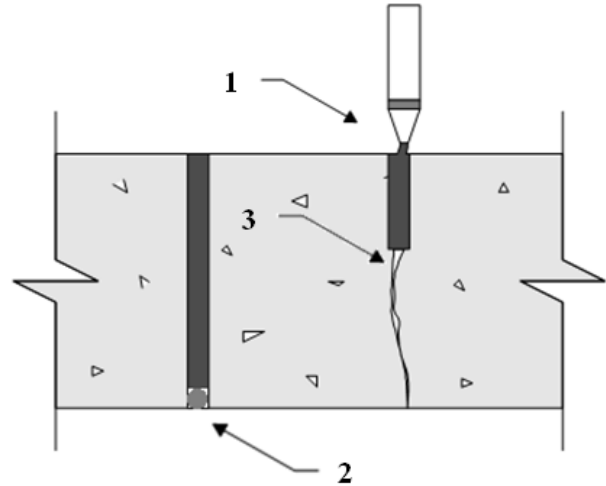
## APPLICATION METHOD / TOOLS

**Dispensing:** Pour the mixed Sikadur®-58 CJR into the prepared joint or use low-pressure equipment. Sikadur®-58 CJR may be applied using a 1:1 ratio, plural component pump and a 30 element static mixing nozzle. Premix each component thoroughly before using. Maintain a steady flow of material to eliminate overlapping as this may cause bubbling within the material. Apply generously; Sikadur®-58 CJR should overflow out of the joint and hold a ridge so that it can be shaved flush after cure.

**Addressing Low Spots:** Cracks can form at the base of control joints causing joint filling material to seep below joint bases leaving behind low spots at the joint surface. Best practice is to apply Sikadur®-58 CJR in two passes allowing material to cure for 1–2 hours in between passes. If low spots are discovered after cure, saw cut these areas down at least ½ (12.7 mm), clean, refill with Sikadur®-58 CJR, and strike flush with a sharp razor as normal.

**Creating Flush Profile:** Cure time is highly dependent on ambient conditions. Shaving the joint filler before it has reached proper hardness may result in a filler profile that is not flush with the concrete floor. Best practice is to allow Sikadur®-58 CJR to cure overnight (around 24 hours) before shaving. Shave Sikadur®-58 CJR with a sharp razor so that the top surface is flush with the surfaces of the concrete that define the control joint. Shaving at a lower angle to the surface may produce better results.

An industrial heating gun or torch may be required to soften cured resin before shaving. Apply heat for 10–15 seconds. When used as a tamper resistant sealant allow the material to flow slowly, settle and self-level filling entire depth. Strike-off flush with the floor surface and remove any excess material where required before it hardens.



1. Pour Sikadur®-58 CJR into prepared joint and allow to overflow
2. If the joint depth exceeds 2 inches, use a backer rod to limit the depth of the joint filler to 2 inches.
3. A thin layer of clean, dry sand may be used at to block the flow of joint filler down into cracks.

## LIMITATIONS

- Do not thin. Addition of solvents may prevent proper cure.
- Substrate temperature should be 40 °F (4 °C) minimum and rising.
- For best results, materials should be maintained between 70 °F and 80°F (21–27 °C) during application
- Do not apply with the presence of standing water.
- Material is a vapor barrier after cure.
- Concrete or masonry must be tested for water-vapor transmission prior to application.
- Not designed for use under constant immersion in water or other liquids.
- Do not use in expansion (moving) or exterior joints.
- For application in non-moving joints only.
- The ultimate performance of Sikadur®-58 CJR depends upon many factors, [i.e., proper joint design, thermally stable areas (concrete slab), etc.].
- Sikadur®-58 CJR should be installed full depth when sealing construction/control joints.
- Material should not be applied earlier than 28 days after new concrete is placed. A 60-90 day cure is recommended.
- Sikadur®-58 CJR may change color over time, especially when exposed to ultraviolet rays, artificial heaters or intense lighting.

- For applications other than sealing of joints, consult Sika Technical Service prior to use.

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## LEGAL DISCLAIMER

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

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