

# PRODUCT DATA SHEET

## Sikadur<sup>®</sup>-58 CJR

### SEMI-FLEXIBLE EPOXY CONTROL JOINT RESIN

#### 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>Colour</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 D Hardness</b>	81.5	(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)

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Component 'A' : Component 'B' = 1:1 by volume.			
<b>Yield</b>	1 gal Yield in Linear Feet with 10 % waste			
	<b>Depth/Width</b>	<b>1/8"</b>	<b>1/4"</b>	<b>3/8"</b>
	1/2"	227	139	92
	3/4"	185	92	62
	1"	139	69	46
	1 1/4"	111	55	37
	1 1/2"	92	46	31
	1 3/4"	79	40	26
	2"	69	35	23
<b>Pot Life</b>	25 minutes, 8 fl. oz. (250 g)			
<b>Curing Time</b>	Shave time: ~24 Hours			
<b>Tack free time</b>	2.5– 3 hours			

## APPLICATION INSTRUCTIONS

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

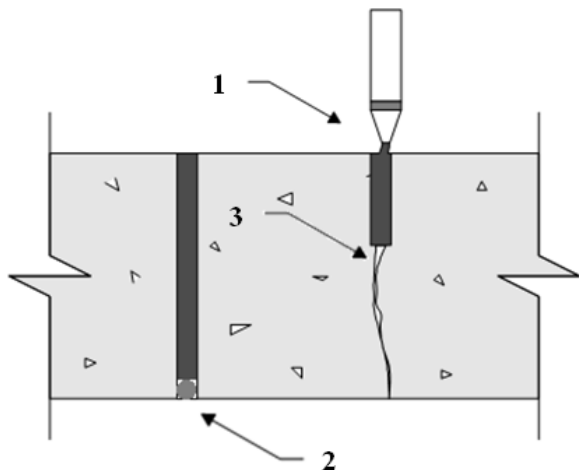
### APPLICATION METHOD / TOOLS

**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 1/2 (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.

## IMPORTANT CONSIDERATIONS

- 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

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.

**Sika Services AG**  
Tüffenwies 16  
8048 Zürich  
Tel: +41 58 436 4040  
[www.sika.com](http://www.sika.com)



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