

PRODUCT DATA SHEET

Sika® Icosit® KC 340/65

2-PART POLYURETHANE GROUT FOR CONTINUOUS EMBEDDED TRACKS (SHORE A 70)

DESCRIPTION

Sika® Icosit® KC 340/65 is a flexible 2-part polyurethane polymer resin grout that can be applied manually or by machine. It is designed as a vibration absorbing, load-bearing, flexible grout for fixing grooved or T-rails onto concrete slabs, steel bridge decks and tunnel invert slabs. Particularly suitable for embedded (floating) rail designs.

USES

Sika® Icosit® KC 340/65 may only be used by experienced professionals.

As a noise and vibration reducing grout for continuous embedded grooved or T-rails and road crossing applications.

CHARACTERISTICS / ADVANTAGES

- Heavy axle loads and standard deflection
- Noise & vibration suppression
- More uniform load distribution into substructure
- Watertight undersealing
- Flexible, elastic (shore A 70)
- Damping, compressible
- Good electrical insulation against stray currents
- Excellent adhesion on various substrates
- Levels out tolerances
- Suitable as a powerful, shear-resistant adhesive
- Absorbs dynamic stresses and prolongs the life of concrete substructure
- Insensitive to moisture
- Long durability, less maintenance

PRODUCT INFORMATION

Composition	2-part polyuret	2-part polyurethane				
Packaging		Manual application	Machine application			
	Part A	8.7 kg container	160 kg drum			
	Part B	1.3 kg container	24 kg container			
	A + B	10 kg	184 kg			
Shelf life	12 months from date of production					
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +25 °C. Always refer to packaging.					
Colour	Grey					
Density	Part A	~ 0.90 kg/l	(ISO 2811-1			
	Part B	~ 1.20 kg/l	(ISO 2811-1)			
	A + B	~ 0.90 kg/l	(ISO 1183-1)			
System structure	System product	s:				

Product Data Sheet Sika® Icosit® KC 340/65April 2023, Version 07.01
02020202030000006

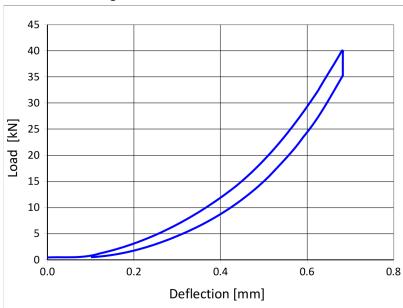
- Sika® Icosit® KC 340/65
- Sikadur-32 Normal: For green and wet concrete
- Icosit® KC 330 Primer
- SikaCor®-299 Airless (Steel deck / baseplate /rail coating)

TECHNICAL INFORMATION

Shore A hardness 70 ± 5 (after 28 days) (ISO 868) Shore hardness assists with material identification and assessing the curing progress on site.

Compressive stiffness

Load-Deflection Diagram



Static stiffness determined according to DIN 45673-1. Test specimen dimensions $1000 \times 180 \times 25$ mm

Spring index c = 63 kN/mm, determined as per the secant method between 8 and 32 kN.

Chemical resistance	Long-term resistant against:	
Service temperature	-40 °C minimum / +80 °C maximum short term +150 °C maximum	
Electrical resistivity	~5.48 × 10 ⁹ Ω·m	(DIN VDE 0100-610 and DIN IEC 93)
Tensile strain at break	~165 %	(ISO 527)
Tensile strength	~3.0 N/mm²	(ISO 527)

Chemical resistance

Long-term resistant against:

- Water
- Most detergents
- Sea water

Temporary resistant against:

• Mineral oils, diesel fuel

Short-term or no resistance against:

- Organic solvents (ester, ketone, aromates) and alcohol
- Concentrated acids and alkali

Contact Sika Technical Services for specific information.

APPLICATION INFORMATION

Mixing ratio	Part A: Part B = 100: 15 (parts by weight) 0.90 kg per litre of volume to be sealed		
Consumption			
Layer thickness	Minimum 15 mm		

Product Data Sheet Sika® Icosit® KC 340/65April 2023, Version 07.01
020202020030000006



	Maximum 60	mm							
Material temperature	Condition product parts before application preferably at $^{\sim}+15~^{\circ}\text{C}$ to assist with flow and curing speed								
Ambient air temperature	+5 °C min. / +	+5 °C min. / +35 °C max.							
Relative air humidity	90 % max.								
Substrate temperature	+5 °C min. / +35 °C max								
Substrate moisture content	Dry to matt damp								
Pot Life	~8 minutes at +20 °C After this time, the mixture becomes unusable. Higher temperatures will shorten pot life.								
Curing time		Tack-free ~2 hours at +20 °C Trafficable ~12 hours at +20 °C							
Curing rate	Shore A	Shore A Curing Temperature							
	Curing Time	0°C	5℃	23 °C	35 °C				
	1 h	-	-	~30	~35				
	2 h	-	~20	~40	~45				
	4 h	~20	~30	~45	~50				
	7 h	~35	~40	~50	~55				
	1 d	~55	~55	~60	~65				
	3 d	~60	~60	~65	~65				
	7 d	~65	~65	~65	~65				
	14 d	~70	~65	~65	~65				
Waiting time to overcoating	On primer or coating at +20 °C								
			Minimum Maximum						
	Icosit® KC 330 Primer		1 hours 3 days						
	SikaCor®-299 Airless		24 hours 7 days						

BASIS OF PRODUCT DATA

safety-related data.

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

IMPORTANT CONSIDERATIONS

- To achieve the optimum flow performance, condition the material to a temperature of +15 °C before application.
- Undersealing layer thickness must be a minimum 15 mm and maximum 60 mm.
- To achieve maximum adhesion on concrete, loose particles and cement laitance must be removed mechanically, e.g. by blast cleaning or scabbling.
- Use of appropriate Sika Primers will improve adhesion and durability.
- Do not add any solvents to product.
- Standing water must be removed (e.g. by vacuum extraction or oil free compressed air) before pouring Sika® Icosit® KC 340/65.

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

Product Data Sheet Sika® Icosit® KC 340/65April 2023, Version 07.01
02020202030000006



APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Substrate must be sound, free from oil, grease, loose and friable particles.

Slightly damp substrates are acceptable. Standing water must be removed (e.g. by vacuum extraction or oil free compressed air) before pouring Sika® Icosit® KC 340/65.

SUBSTRATE PREPARATION

To improve adhesion, apply Icosit® KC 330 Primer as a primer on absorbent substrates (concrete).

For additional corrosion protection, use SikaCor®-299 Airless and Icosit KC 330 Primer in combination to coat the steel surfaces.

Immediately blind (broadcast) the freshly applied coated surfaces with quartz sand (0.4–0.7 mm granulometry).

Always comply with the waiting time limits between application of SikaCor®-299 Airless, Icosit KC 330 Primer and pouring of Sika® Icosit® KC 340/65. Refer to the individual Product Data Sheets for more information.

MIXING

Sika® Icosit® KC 340/65 is supplied in pre-weighed composite units consisting of parts A + B. Part A must be stirred thoroughly before being mixed with part B. **10 kg units**

The following mixing instructions must be carried out: Use an electric or pneumatic mixer with basket type stirrer, diameter 120–140 mm, speed $^{\sim}600-800$ rpm. Mixing time $^{\sim}60-80$ seconds

Ensure material is mixed from the container walls and the base by the stirrer during mixing.

176 kg units

Recommended mixer for stirring Part-A in 160 kg drums:

Geppert Rührtechnik GmbH gear stirrer GRS 300/1,5 equipped with three blades Ø 300 mm. Gear stirrer must be mounted on a drum lid which replaces the original lid during stirring. Stirring time ~5 minutes.

APPLICATION METHOD / TOOLS

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.

Material is suitable for application with special 2-part casting machines. Correct mix ratio must be carried out. Part A must be stirred at regular intervals. Reference must be made to equipment supplier's instruc-

tion manual Sika Australia Pty Limited

ABN 12 001 342 329 aus.sika.com Tel: 1300 22 33 48

CLEANING OF EQUIPMENT

Mixing and application tools must be cleaned at regular intervals and immediately after use with Sika® Cleaner 5. Hardened material can only be removed mechanically

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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.

SikalcositKC34065-en-AU-(04-2023)-7-1.pdf

