Icosit® KC 340/65

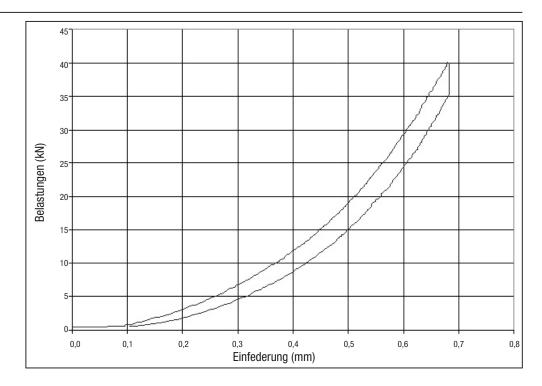
2-pack, Polyurethane grout for rail fixing

Product Description	Icosit® KC 340/65 is a flexible two-component polymer grout based on polyurethane resin, hand and machine applicable.		
Uses	■ Icosit® KC 340/65 is designed as load-bearing, flexible levelling grout for elastic fixing of grooved or T-rails on concrete slabs, steel bridge decks and in tunnels. Particularly suitable for embedded (floating) rail designs.		
Characteristics / Advantages	Reduces vibration Excellent electrical insulation against stray currents Levels out tolerances Suitable as shear-resistant adhesive for rail fixing Insensitive to moisture elastic (Shore A 70) - compressible Long life expectance		
Product Data			
Appearance / Colours	Grey		
Packaging	Component A:	8.7 kg pail	160 kg drum
	Component B:	1.3 kg tin	24 kg pail
	Part A + B:	10 kg	184 kg
Conditions of storage / Shelf-Life	12 months from date of manufacture in cool and dry storage in unopened original containers, protected from direct sun radiation, at temperatures between + 10 °C and + 25 °C. Protect from frost.		
Technical Data			
Chemical base	2-component, polyurethane grout		
Density	Component A:	approx. 0.88 kg/ltr.	ISO 2811-1
	Component B:	approx. 1.23 kg/ltr.	ISO 2811-1
	Part A + B:	approx. 0.92 kg/ltr.	ISO 1183-1
Viscosity	Component A:	approx.3.70 Pa s	With Z 3 DIN, 20 °C
	Component B:	approx. 0.26 Pa s	With Z 3 DIN, 20 °C
Layer Thickness	Minimum 15 mm Maximum 60 mm		



Temperature Resistance From - 40 °C up to + 80 °C (temporarily up to + 150 °C).			
Tensile Strength	3.0 N/mm²	(ISO 527)	
Shore D Hardness	70 ± 5 (after 28 days)	(ISO 868)	
Elongation at Break	Approx. 165 %	(ISO 527)	
Specific electrical Resistance	Approx. 5.48 x 10 ⁹ Ω m	(DIN VDE 0100-610 and DIN IEC 93)	

Spring Diagram DIN 45 673-1



"Belastung" = load [kN]; "Einfederung" = deflection [mm]

Static stiffness determined analogous to DIN 45 673-1.

Test specimen dimensions 1000 x 180 x 25 mm.

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

Shore hardness serves for material identification and control of curing progress on site.

Chemical Resistance

Long-term resistant against:

- Water
- Most detergents
- Sea water

Temporary resistant against:

Mineral oils, Diesel fuel

Not or only short-term resistant against:

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

For more details contact our technical service centre.

System Information

Consumption / Dosage 0.92 kg per litre of volume to be sealed. Substrate Quality Substrate must be solid, free from oil, fat, loose and friable particles. Slightly damp substrates are acceptable. Water in liquid form (droplets) must be removed (e.g. by vacuum or compressed air) before pouring lcosit® KC 340/65.

Substrate Preparation

Icosit® KC 330 Primer:

To improve adhesion, absorbent substrates (concrete) should be primed. Waiting time between application of **lcosit® KC 330 Primer** and pouring of **lcosit® KC 340/65** min. 1 hour and max. 3 days.

SikaCor® 277:

If a waiting time of more than 3 days is to be expected between priming and pouring **lcosit® KC 340/65** or if a solvent-free primer or an efficient corrosion protection is required, **SikaCor® 277** shall be used for priming. The freshly applied coating should immediately be blinded (broadcasted) with quartz sand 0.4 - 0.7 mm granulometry.

Waiting time between application of SikaCor® 277 and Icosit® KC 340/65 minimum 24 hours.

See individual data sheets for these products!

Application Conditions

Material temperature	Before application preferably approx. + 15 °C.	
Substrate temperature	+ 5 °C min. / + 35 °C max.	
Ambient temperature	+ 5 °C min. / + 35 °C max.	
Substrate humidity	Dry to mat-damp	
Relative air humidity	90 % max.	

Mixing proportion component A: component B = 100: 15 (parts by weight).

Icosit® KC 340/65 is supplied in pre-weighed composite units consisting of A + B component.

Application Instructions

Application Method /

Tools

	Component A must be stirred up thoroughly before being mixed with component B.
	Whilst mixing 10 kg units, observe the following instructions: 1. Electric or pneumatic stirrer, approx. 600 – 800 rpm 2. Mixing time approx. 60 to 80 seconds 3. Make sure to properly reach walls and bottom of container
	For 10 kg units, we recommend mixer CX 40 stirrer WK 140 of Messrs. Collomix or mixer MXP 1000 EQ with stirrer HS 2, 140 x 160, of Messrs. PROTOOL.
	For stirring up component A in 160 kg drums, we recommend gear stirrer GRS 300/1.5, equipped with three blades Ø 300 mm of Messrs. Geppert Rührtechnik GmbH. Gear stirrer has to be mounted on a drum lid which replaces the original lid during stirring. Stirring time approx. 5 minutes.
	Material is suitable for application with special 2-pack casting machines. Mixing proportion must be carefully observed and monitored. Component A has to be stirred up at regular intervals. Observe instructions of use of equipment supplier.
Cleaning of Tools	Mixing and application tools must be cleaned at regular intervals and immediately after use with Sika® Cleaner 5. Cured material can only be removed mechanically.
Potlife	Approx. 8 minutes at + 20 °C (68 °F).
	After this time, the mixture becomes unserviceable.
	Do not add any solvents!
	Higher temperatures will shorten pot life!
Waiting Time	Tack-free after approx. 2 h at + 20 °C.
	Traffickable after approx. 12 h at + 20 °C.

Please Note

For easier application, we recommend a material temperature of + 15 °C.

Undersealing layer thickness should be minimum 15 mm and maximum 60 mm.

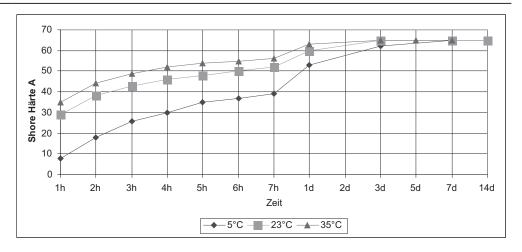
To achieve maximum adhesion on concrete, loose particles and cement laitance must be removed mechanically, e.g. by blastcleaning or scabbling.

Substrate may be damp.

Droplets of water have to be removed before application of **Icosit® KC 340/65**, e.g. by compressed air.

Use of appropriate Sika Primers will improve adhesion considerably.

Curing Progression



Value Base

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.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country.

Please consult the local Product Data Sheet for the exact description of the application fields.

Health and Safety Information

Protective Measures

Components A + B of **Icosit® KC 340/65** are solvent-free.

Component A is classified as "irritating" Component B is classified as "harmful".

Local regulations as well as health and safety advice on containers must be observed.

Component B of **Icosit® KC 340/65** contains Isocyanate.

Isocyanate containing material may cause irritation and – under permanent exposure – sensitization of skin, eyes and respiratory tract and may also lead to allergic reactions. Allergic persons and persons tending to illness of respiratory tract should not come into contact with this kind of materials. Therefore avoid direct contact with the liquid components (chemical resistant gloves/goggles/clothing) to prevent direct contact with skin and eyes. Use only in presence of adequate general and local exhaust ventilation to prevent concentration of vapours. Use properly fitted NIOSH respirator if ventilation is poor. Cured product (as combined with companion component) is chemically inert but very difficult to remove from skin or any objects to which it adheres. Cured product must be mechanically removed. In case of spill, avoid direct contact. Wearing protective equipment, contain and collect spill with absorbent material and place in suitable container. Ventilate enclosed area. Do not dispose of in sewer or drain. Dispose of spilled or excess product and container in accordance with applicable federal, state and local environmental regulations.

Prior to as well as after application use fat-free barrier cream. After completion of work clean skin with plenty of soap and water and again protect with fat-containing barrier cream.

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

Notes

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 Notes

Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste in agreement with the responsible local authorities.

Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.

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 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 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 Product Data Sheet for the product concerned, copies of which will be supplied on request.



