

Sikadur®-42 PC

Epoxy Resin Based Pile Cap Waterproofing system

Product Description	Sikadur®-42 PC is a solvent-free, high strength, pourable, three-component epoxy mortar, based on a combination of epoxy resins and specially selected high strength fillers. Specially suitable for tropical and hot climatic conditions.
Uses	Sikadur®-42 PC can be used as follows <ul style="list-style-type: none"> ■ Pile head waterproofing ■ To fill cavities in concrete ■ Fixing bolts, anchors and starter bars
Characteristics / Advantages	Sikadur®-42 PC offers many benefits to the user: <ul style="list-style-type: none"> ■ Solvent-free ■ Long workability time at high temperature ■ Good flow characteristics ■ Rapid hardening. ■ Low Exotherm ■ Shrinkage-free hardening ■ High mechanical strengths ■ Tough vibration-resistant material
Product Data	
Form	
Colours	Mixed: Grey
Packaging	32kg, 64kg, 128 kg units (A+B+C)
Storage	
Storage Conditions / Shelf-Life	12 months from date of production if stored properly in original unopened, sealed and undamaged packaging in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight
Technical Data	
Chemical Base	Epoxy Resin, Curing Agent and selected quartz aggregates
Mixing ratio	A : B : C = 3 : 1 : 28 parts by weight Addition of Component C according to climate conditions and desired application behaviour.
Density	Mixed = 2.10 kg/l (Approx)
Layer Thickness	Layer thickness: Minimum-15 mm, Maximum-50 mm
Pot life	20°C ~100 min 35°C ~ 70 min.



Full Cure	Approximate 14 days at 25 ⁰ C	
Mechanical / Physical Properties		
Strengths at 35⁰C	Compressive strength	~70- 80 N/mm ²
(Typical values at 7days)	Flexural strength	~ 30 – 35 N/mm ²
	Tensile Strength	~ 15 – 20 N/mm ²
	Adhesion (on Concrete)	~ 3.5 N/mm ² (Concrete failure)
System Information		
Substrate Preparation	All surfaces must be clean, free from frost, standing water and all loosely adhering particles. Cement laitance must be mechanically removed. Concrete must be at least 3 weeks old, depending on climate. Rebars (steel and iron) must be free from scale, rust, oil and grease.	
Application Conditions / Limitations		
Substrate Temperature	+8°C min. / +40°C max.	
Application Temperature	+8°C min. / +45°C max. Store material at temperature of about 20 -25 ⁰ C (room temperature) for at least 24 hours prior to its use.	
Material Temperature	Sikadur [®] -42 PC must be applied at temperatures between +5°C and +35°C	
Substrate Humidity	Dry	
Dew Point	Beware of condensation! Ambient temperature during application must be at least 3°C above dew point.	
Mixing Instructions		
Mixing	Pour all of component B into component A container. Mix with basket type stirrer connected to an electric mixer at low speed (max. 250 rpm) until the originally turbid liquid becomes completely clear. Avoid entraining air. Pour mixture into suitable mixing vessel and add component C. Stir for approx. 5 minutes with electric hand mixer (Max. 250 rpm) until mortar of homogeneous consistency is obtained. Note: Never mix only Component A and B without adding component C (as the exothermic reaction between A and B alone generates excess heat)	
Application Method / Tools	Prior to application, rest mix for a short time to allow entrained air to escape. Pour mortar into prepared opening (hopper) and maintain enough static pressure. Ensure that entrapped air can easily escape. Large volumes have to be poured in layers. Pour next layer as soon as the previously applied layer has hardened and started to cool. Avoid Shoulders whenever possible. Opened containers (Comp A & B) must be closed immediately after use.	
Cleaning of Tools	Clean all tools and application equipment with Sika [®] Colma Cleaner immediately after use. Hardened/cured material can only be mechanically removed.	
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	
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country	

Health and Safety Information

Protective Measures	<p>Accidental splashes to the skin must be washed off with water and soap.</p> <p>Accidental splashes to the eyes or mucous membrane must be rinsed with clean warm water. Seek medical attention without delay.</p> <p>Skin barrier cream, safety goggles and rubber gloves are recommended. To avoid rare allergic reactions, use of butyl protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work. When uncured Sikadur®-42 PC are water-pollutants and must not be discharged into drains, waterways or the ground.</p> <p>Local regulations as well as health and safety advice on packaging labels must be observed.</p>
Ecology	In a liquid state, components A+B contaminate water. Do not dispose of into water or soil but according to local regulations
Transportation Class	<p>Comp. C : Non-hazardous.</p> <p>Comp. B:: 8/53 c. Comp. A, 9/11 c</p>
Important Notes	<p>Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.</p> <p>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.</p>
Toxicity	Comp. A+B: Class 4 under the relevant Swiss Health and Safety Codes. Observe warnings on packing

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.



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