

PRODUCT DATA SHEET

SikaTop®-121 PC

(formerly Davco® Polycrete ECO)

POLYMER-MODIFIED CEMENTITIOUS MORTAR FOR SPALLING CONCRETE & STRUCTURAL PATCH REPAIR



DESCRIPTION

SikaTop®-121 PC is a premium repair mortar with high compressive strength to reinstate the integrity of concrete. SikaTop®-121 PC is a two-component, polymer modified cementitious mortar which only needs mixing of the two parts as supplied, without adding water, thus eliminating any error of site mixing.

USES

SikaTop®-121 PC is a versatile material suitable for many uses:

- As a repair medium for concrete or cementitious surfaces damaged by chemical erosion, impact or spalling because of corrosion of reinforcement.
- For the patching of cracks, blowholes, and honeycombs of concrete surfaces.
- Filling compound to level off irregularities on concrete substrates.
- Rendering and screeding of uneven surfaces where high compressive strength is desired.
- Bonding mortar between new and old concrete

CHARACTERISTICS / ADVANTAGES

- Simple to use: Materials are prepacked and pre-weighed to reduce errors on site mixing.
- Thixotropic: Allows easy trowel application thereby enabling high build application thickness on both vertical and horizontal substrates.
- Non-shrink: Eliminates considerably cracking and debonding from substrates
- Consistent quality: No water is required or allowed for dilution, maintaining constant quality in every batch.
- Water resistance: Dense matrix provides very high water resistance.

APPROVALS / STANDARDS

Singapore Green Building Product (Leader) Cert. No. SGBP 4084

PRODUCT INFORMATION

Packaging	Part A	5 litres/pail
	Part B	25 kg/bag
	Part A + B	30 kg/set
Appearance / Colour	Part A - Liquid Part B - Powder	
Shelf Life	12 months from the date of production	
Storage Conditions	Store properly in original, unopened and undamaged sealed packaging in dry conditions. Keep away from direct sunlight and frost.	
Maximum Grain Size	< 1 mm	

TECHNICAL INFORMATION

Compressive Strength	40 - 55 N/mm ²	(ASTM C109 : 2016a)
Shrinkage	≤ 0.08%	(ASTM C531 : 2000 (Reapproved 2012))
Tensile Adhesion Strength	Before Accelerated Weathering	≥ 1.5 N/mm ² (BS EN 1015-12 : 2016)
	After Accelerated Weathering	Loss of Strength ≤ 10%

APPLICATION INFORMATION

Mixing Ratio	Part A : 4.5 - 5.0 litres to Part B : 25 kg		
Pot Life	~ 45 mins after mixing		
Setting Time	1 N/mm ²	≤ 6.5 hours	(BS EN 1015.9 : 1999)
	2 N/mm ²	≤ 8 hours	

BASIS OF PRODUCT 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.

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.

SURFACE PREPARATION

The repair area must be free from all unsound materials, i.e. dust, oil, grease, corrosion or any organic growth. Remove all loose materials and surface laitance. For repair of large areas, water jet or mechanical scrub the area before application.

SUBSTRATE QUALITY / PRE-TREATMENT

Prime the concrete surface with a recommended Sika Bonding Agent, e.g. SikaLatex®-751 or 1000. Wire brush to clean the reinforcement and prime with Sikagard®-960 Protect for corrosion protection.

MIXING

Measure and pour about 80% of the volume of Liquid Part A in a clean mixing pot. Start mixer and slowly add Powder Part B to avoid lumps. Once the mix is of uniform consistency, add the right amount of Part A to achieve the needed consistency and workability.

APPLICATION

For vertical or horizontal application, apply with a trowel to achieve the right thickness (maximum thickness 30 mm per layer).

For repairs which need multi-layer applications, it is important to ensure that previous layers are dry, stable and well keyed before applying the next layer.

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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Product Data Sheet
SikaTop®-121 PC
August 2025, Version 01.02
020302040070000066

SikaTop-121PC-en-SG-(08-2025)-1-2.pdf