

PRODUCT DATA SHEET

SikaTop®-118 K11 Flex

(formerly Davco® K11 Flex)

2-PART FLEXIBLE CEMENTITIOUS WATERPROOFING SYSTEM



DESCRIPTION

SikaTop®-118 K11 Flex is a 2-part flexible acrylic-modified cementitious concealed waterproofing system. The 2-components of SikaTop®-118 K11 Flex react chemically after mixing to form a hard and elastic film which bonds well to most concrete or masonry substrate to protect against possible ingress of water.

The application of SikaTop®-118 K11 Flex requires the surface to be saturated or wetted down prior to its application. This makes SikaTop®-118 K11 Flex a practical and ideal product for waterproofing in damp conditions such as basement, wet areas and external areas of most sites where the surface has to be pre-washed prior to applying any waterproofing system.

SikaTop®-118 K11 Flex is compatible with plastering or screeding material which can be applied directly without affecting bond.

SikaTop®-118 K11 Flex can accommodate slight movement of structure and can be used as a repair material for bridging cracks in substrate or cracks due to shrinkage up to 2 mm width.

USES

As an concealed system on internal and external surfaces of wall and slab, swimming pools, kitchens, toilets, balcony, water tanks.

Used on parking decks, in planter boxes, for sealing precast joints and intersection of two concrete elements, lightweight blocks, hollow blocks, aerated blocks, etc.

Suitable Substrates

- Concrete
- Brickwork
- Precast Surface
- Lightweight Blocks

CHARACTERISTICS / ADVANTAGES

- 2 components eliminates risk of incorrect mixing ratio
- Seals lightweight aerated blocks
- Seals precast joints
- Anti-carbonation protection
- Non-toxic
- Foot trafficable when cured
- Will not attack metal

APPROVALS / STANDARDS

Singapore Green Building Product (Leader) Cert. No. SGBP 4189

PRODUCT INFORMATION

Packaging	42 kg/set
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.

TECHNICAL INFORMATION

Shore A Hardness	> 40	(ASTM D2240:2015)
Tensile Strength	$\geq 1.5 \text{ N/mm}^2$, 28 days $\geq 1.2 \text{ N/mm}^2$ after immersion in 0.50 % NaOCl, 1.25 % NH_4OH or 3.70 % HCl for 72 Hrs	(ASTM D412 : 2016)
Elastic Recovery	Crack bridging ability Passed	(Bridge cracks up to 2 mm)
Tensile Adhesion Strength	Adhesion to concrete > 0.3 N/mm ²	(ASTM D4541:2002)
Resistance to Water Penetration	0	(DIN 1048 Pt 5:1991)
Chloride Content	< 0.01 %	
Elongation at break	$\geq 150 \%$, 28 days $\geq 120 \%$ after immersion in 0.50 % NaOCl, 1.25 % NH_4OH or 3.70 % HCl for 72 Hrs	(ASTM D412-2016)

APPLICATION INFORMATION

Consumption	Set Size (kg)	Coverage (m ²)	Thickness (mm)
	42	15 – 20	~ 1.2 to 1.5
Wet film thickness : 0.7 ± 0.1 mm/coat.			
Pot Life	2 hours		(~30 °C)
Drying Time	1 - 3 hours		(Touch Dry)
Contact Time	4 hours		(Foot Trafficable)

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.

IMPORTANT CONSIDERATIONS

- SikaTop®-118 K11 Flex must be protected by rendering or screeding after application is cured for 24 hours.
- If applied directly onto lightweight aerated block, the block must be primed with Sikalastic®-500 Acrylic Primer AP until a coloured tint is visible.
- Ponding Test can be 24 hours after application

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.

APPLICATION INSTRUCTIONS**SUBSTRATE PREPARATION**

Clean the substrate of any protrusion or substances that may damage the membrane. Ensure all surfaces are free from dirt, dust, grease, oil, wax, curing compounds and any other loose contaminating materials.

Fill all voids, cracks, edges and angles with SikaGrout®-180 or suitable repair material, so that the prepared surface is sound, even and level.

MIXING

Pour SikaTop®-118 K11 Flex Liquid into a clean mixing container. Add the SikaTop®-118 K11 Flex Powder gradually while mixing until a lump free plastic consistency is achieved. It is recommended that mechanical mixing (400 - 500 rpm) should be used for 2 - 3 minutes to ensure proper dispersion of the components. **NO ADDITION OF WATER IS ALLOWED.**

APPLICATION

- Pre-wet the surface with clean water. Do not allow water ponding.
- Very porous surface must be primed with Sikalastic®-500 Acrylic Primer AP prior to applying SikaTop®-118 K11 Flex.
- Apply the mixed material onto the prepared surface using a block brush, squeegee or roller in a stiffening action.
- Apply 1 - 2 coats finish depending on site conditions and film thickness required. If a trowel is used for application, all undulating or uneven areas must be patched to level before applying the SikaTop®-118 K11 Flex to prevent the material from building up too thick in one application.
- Before a 2nd coat is applied, the 1st coat must be left for approximately 2 - 3 hours depending on the thickness, substrate porosity and the temperature until it is dry. The 2nd should be applied in a direction perpendicular to the 1st coat.

CLEANING OF TOOLS

All tools and equipment should be cleaned immediately with clean water after use. Hardened material can only be removed mechanically.

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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