

PRODUCT DATA SHEET

SikaScreed®-138

(formerly Davco® Floor Screed ECO)

HIGH QUALITY PREMIXED CEMENTITIOUS FLOOR SCREED



DESCRIPTION

SikaScreed®-138 is a high quality premixed cementitious floor screed comprising of Ordinary Portland Cement, approved recycled materials, graded sands and chemical additives to meet stringent requirements. It is approved by the Eco-labelling authority in Singapore as a sustainable building material.

SikaScreed®-138 provides good workability by simply adding water to mix on site and is ideal for casting onto new or old concrete floor.

USES

SikaScreed®-138 is suitable for use as a normal screed on new concrete substrates, or to repair old worn-out substrates in residential and industrial floors. It can be used for internal as well as external applications.

PRODUCT INFORMATION

Packaging	40 kg/bag
Appearance / Colour	Grey 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.
Density	2,000 ± 100 kg/m ³ (Wet)
Maximum Grain Size	5 mm

TECHNICAL INFORMATION

Compressive Strength	25 to 40 N/mm ²	(ASTM C109 : 2016a)
Tensile Strength in Flexure	> 2 N/mm ²	(ASTM C348 : 2014)

CHARACTERISTICS / ADVANTAGES

- Non-toxic.
- Premixed to ensure good consistent quality and mix.
- Easy to use by simply adding water.
- Prepacked for convenience in handling.
- Eliminates all surface crack lines.
- Good weather resistance and high durability.
- Certified as a Green Label Product.

APPROVALS / STANDARDS

Singapore Green Building Product (Leader) Cert. No. SGBP 4194

Shrinkage	No crack	(Continho Ring)
Flow Rate	80 - 120 %	(ASTM 1437 - 2015)
Water Absorption	< 5%	(ASTM C413 : 2001 (Reapproved 2012))
Water retention	> 90 %	(BS 4551 : 2005 + A2 : 2013)

APPLICATION INFORMATION

Mixing Ratio	4.2 - 6.0 ltr of water / 40 kg bag	
Consumption	2.2 - 2.5 m ² / 10 mm thick / 40 kg bag	
Layer Thickness	10 - 40 mm per layer	
Pot Life	40 minutes after mixing	
Setting Time	Stiffening Time	
	<u>1 N/mm²</u>	<u>≤ 6 hrs</u> (BS EN 1015 : Part 9
	<u>2 N/mm²</u>	<u>≤ 7 hrs</u> : 1999 (Method A))

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

Organic matters are naturally occurring in sand, a major raw material of SikaScreed®-138. When used as a final finish, it is normal for the floor screed to have some stains and blemishes on the surface, coming from these organic matters. They have no effect on the surface or the screed's performance and will disappear over time with wear and usage of the floor area.

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

Remove all dust, oil and debris. Dampen the dry concrete surface before application of SikaScreed®-138. For old worn out substrate, the surface should be hacked off and primed with bonding slurry coat before applying SikaScreed®-138.

MIXING

Mix with a site drum mixer for 3 - 5 minutes until the desired homogeneous mix is achieved. Ensure that it is free of lump before use.

APPLICATION

Ensure that the substrate is damp and clean without any ponding water. A bonding slurry coat should be applied before screeding and it consists of 1 part of SikaLatex®-751 or SikaLatex®-1000 mixed with approximately 0.5 to 1 part of SikaScreed®-138. A site trial can be conducted if necessary to ensure that the consistency of the slurry coat is suitable. The mixed SikaScreed®-138 mortar is then poured onto the slurry coat wet-on-wet. Compact and finish the screed in accordance to standard practice using a suitable float or trowel. For screed thickness greater than 40 mm, the application can be done in multiple layers, ensuring that the previous layer has dried and then applied with bonding slurry coat. Welded steel mesh, e.g. A8 size and above, can also be laid within the screed during application to prevent cracking.

CURING TREATMENT

In hot ambient temperature, the screed should be cured with water spray for at least 3 days. It is important to protect the product during placement and whilst curing from direct sunlight and winds. This is to prevent rapid dehydration or desiccation (excessive moisture loss).

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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