BUILDING TRUST

PRODUCT DATA SHEET

Sika MonoTop®-155 Waterproof Screed

(formerly Davco® Waterproof Screed ECO)

ENVIRONMENTALLY FRIENDLY, WATERPROOF FLOOR SCREED

DESCRIPTION

Sika MonoTop®-155 Waterproof Screed is an environmentally friendly, non toxic, cementitious waterproof floor screed that is specially formulated with recycled material for reduced embodied carbon foot print. It is approved by Eco-labelling authority in Singapore as a sustainable building material.
Sika MonoTop®-155 Waterproof Screed is a single component,easy to install, and cost effective waterproofing system that provides integral waterproofing by forming a hydrophobic layer within the screed to prevent water penetration into the concrete floor.
By simply adding water and mixing with a mechanical mixer, Sika MonoTop®-155 Waterproof Screed yields a homogeneous mortar paste that gives good workability when applied on the floor, cement based waterproof floor screed for levelling rough and uneven concrete floors.

USES

Sika MonoTop®-155 Waterproof Screed is suitable for waterproofing toilets, kitchens, bathrooms, balconies, plaza decks, parking garages, basements, tunnels etc, whenever a waterproof screed or rigid membrane is needed.

CHARACTERISTICS / ADVANTAGES

- Environmentally friendly with reduced embodied carbon foot print.
- Prepacked to ensure good consistency, good quality and convenience in handling and transportation.
- Waterproof floor provides a continuous and permanent barrier to water.
- When Sika MonoTop®-155 Waterproof Screed is used, substantial time and cost savings are achieved as opposed to a membrane system, which require longer installation and supervision time.

APPROVALS / STANDARDS

Singapore Green Building Product (Leader) Cert. No. SGBP 3622

PRODUCT INFORMATION

Reinforcing Material	Graded sand
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.
Maximum Grain Size	5 mm

TECHNICAL INFORMATION

Compressive Strength	25 to 40 N/mm²	(ASTM C109/109M : 2016a)
Tensile Strength in Flexure	> 2 N/mm²	
Shrinkage	No crack	(Continho Ring)
Water Absorption	< 5 %	(ASTM C413 : 2001 (2012))
Water permeability	< 5 mm	(DIN 1048 : Pt 5 : 1991)

APPLICATION INFORMATION

Mixing Ratio	~ 4.2 - 6.4 ltr of water / 40 kg bag		
Consumption	2.2 - 2.5 m² / 10 mm / 40 kg bag		
Layer Thickness	10 mm - 40 mm / layer		
Pot Life	~ 30 minutes		
Flowability	80 % - 120 %		(ASTM C1437 : 2015)
Setting Time	@ 1 N/mm²	≤ 6 hrs	(BS EN 1015 - 9 : 1999 (Method A))
	@ 2 N/mm²	≤ 7 hrs	
Fresh mortar density	1,800 - 2,100 kg/m³		

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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Receiving floor surfaces should be thoroughly cleaned of all dirt, dust and impurities, which may affect adhesion. Conventional curing compounds should be removed prior to application of Sika MonoTop®-155 Waterproof Screed. Prior to the application, a slurry bonding coat should be applied to ensure good adhesion.

MIXING

Mix with a site drum mixer for 3 - 5 minutes until 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 Sika MonoTop®-155 Waterproof Screed. A site trial can be conducted if necessary to ensure the consistency of the slurry coat is suitable. The mixed Sika MonoTop®-155 Waterproof Screed mortar is then poured onto the slurry coat wet-on-wet after about 30 minutes. Compact and finish the screed in accordance to standard practice using a suitable float or trowel.

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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