PRODUCT DATA SHEET

Davco SMP EVO

DESCRIPTION

Davco SMP EVO is a flexible, cement-based tile adhesive specifically designed for premium stone, marble and porcelain tiles.

Davco SMP EVO has superior non-slump properties making it suitable for large format tile and stone applications.

Davco SMP EVO is equipped with patented DUSTLESS technology which reduces dust during the mixing phase.

USES

Commercial and domestic walls and floors including high foot traffic locations, bathrooms, showers, kitchens, laundries, living rooms, balconies, patios, swimming pools and spas.

Suitable tile types include;
▪ Ceramic tiles
▪ Porcelain tiles
▪ Quarry tiles
▪ Mosaic tiles
▪ Natural stone including Marble, Granite, etc

Suitable substrates include:
▪ Concrete
▪ Cement boards and sheets
▪ Cement renders and screeds, including early aged screeds and concrete
▪ Rendered brick and blockwork
▪ Light weight construction boards coated with cement
▪ Sika approved acoustic underlayment's
▪ Under tile Sika waterproofing membranes
▪ Timber flooring with cement sheeting
▪ Under floor heating

CHARACTERISTICS / ADVANTAGES

▪ DUST LESS Technology that reduces airborne dust by up to 80% during the mixing phase.
▪ Commercial grade
▪ Suitable for swimming pools and spas
▪ Suitable over under floor heating
▪ Non Slump suitable for large format tiles
▪ Non vertical slump for easy wall tiling

PRODUCT INFORMATION

Product Declaration	When mixed with water, Class - C2TES1 When mixed with Davco Davelastic, Class - C2TES2
Packaging	20kg Paper bags / 64 bags per pallet 5kg Plastic film bags / 4 bags per box
Shelf life	Paper bags: if unopened 12 Months from date of manufacture. Plastic film bags: if unopened 18 months from date of manufacture.
Storage conditions	Store in dry cool conditions, elevated out of direct sunlight
Appearance / Colour	White powder
Volatile organic compound (VOC) content	Low VOC - 7g/L (SCAQMD method 304-91)

APPLICATION INFORMATION

Mixing Ratio	5 - 6 Litres of clean potable water per 20kg Bag 1.4 - 1.5 Litres of clean potable water per 5kg bag	
Consumption	20kg Bag of Davco SMP EVO covers approximately 6-7m² with a 10mm notched trowel.	
Pot Life	1.5 hours	
Open Time	30 minutes	
Adjustability Time	20 minutes	
Applied Product Ready for Use	**Application**	**Wait time**
	Set time prior to grout	24 hours
	Set time prior to dry area service	24 hours
	Set time prior to wet area service	2 days
	Set time prior to return to sub-merged area service	21 days prior to filling with water
	All measurements are taken at 22ºC and 50% relative humidity. Specifications vary according to site conditions and should be taken as a guide only.	

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.

FURTHER INFORMATION

It is essential to plan the area to be tiled, with inclusion of movement joints, in accordance with the relevant Australian Standard . Failure to do so may result in drummy or lifting tiles. Make sure normal building or surface movement is accommodated by installing movement joints as follows:
- Over movement joints in the substrate
- At a junction between different substrate materials
- At fixtures interrupting the tile surface e.g. columns
- At internal vertical corners
- Around the perimeter of the tiling system
- At a maximum of 4.5m centres, in a grid pattern
- Movement joints should be kept free from dirt and adhesive droppings
- All movement joints can be filled with a suitable Sika sealant.

IMPORTANT CONSIDERATIONS

- Test product in an inconspicuous area first
- Do not apply in temperatures above 35ºC or below 5ºC
- In cool and / or humid conditions, allow longer setting times
- Do not allow the adhesive to skin prior to laying the tiles. If the adhesive skins remove and dispose of it, then re-apply fresh adhesive
- Not suitable for moisture sensitive stone, seek further advice from Sika representative
- For tiling over existing ceramic tiles in wet areas, such as a shower recess, mix Davco SMP Evo with a diluted Davco Davelastic solution
- Do not use for tiling over existing tiles in submerged areas, such as swimming pools and spas
- Due to uncontrollable external factors efflorescence is beyond the control of the manufacturer
- Setting times of adhesive is affected by site conditions, climate and could be faster or slower than specified

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

EQUIPMENT

- Personal protective equipment
- Mixing drill with stirring paddle
- Clean mixing buckets
- **Select a trowel with an appropriate square-notch size for the size and type of tile, as per the following:**

Tile Size	Trowel notch size	Back buttering required
Mosaic tiles	4 to 6mm	
150 x 150mm	6mm	
200x200mm	8mm	
250x250mm	10mm	
300x300mm	10mm	
400x400mm and larger	12mm	Yes
Tiles with uneven backs, lugs or grooves	as above dependant on size	Yes
Translucent tiles	as above dependant on size	Yes

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SUBSTRATE QUALITY

All surfaces must be installed according to manufacturer's instructions and relevant Australian Standard(s) and be structurally sound, dry, clean and free from movement, oil, grease, wax, sealers, curing compounds, release agents and any other loose or contaminating material. Thoroughly clean old surfaces, or new surfaces that have been treated, prior to tiling

Deeply contaminated surfaces must be scabbled / abraded to a clean, sound surface. Expose at least 80% of the original substrate of painted surfaces

Substrates shall meet relevant deflection standards outlined in the relevant Australian Standards.

SUBSTRATE PREPARATION

Substrate	Specific requirement	Primer
Concrete - wood float /rough finish	Cured min 1 week	Ultraprime or Primex
Concrete - streel trowel / smooth surface	Cured min 1 week free form laitance/not flaking	PrimeX
Rendered Brick / blockwork	Cured min 24 hours (not drummy or cracked)	Ultraprime or PrimeX
Cement based screed	Cured min 24 hours (not drummy or cracked)	Ultraprime or PrimeX
Fibre cement sheet or plasterboard	Correctly and firmly fixed	Ultraprime or PrimeX
Compressed cement boards	Correctly and firmly fixed	Ultraprime or PrimeX
Timber flooring	Securely bonded with ceramic tile underlay	Ultraprime or PrimeX
Existing Tiles	securely bonded (not drummy or loose) mix with diluted Davco Davelastic	Prep n prime
Under tile heating	correctly installer with cement based leveller over	As appropriate for material

- Refer to the specific primer product datasheet for additional information

MIXING

1. Measure the right amount of clean, potable water (or diluted Davelastic solution) into a clean bucket.
2. Slowly add the powder into the water while mixing with a mixing paddle attached to a drill. Do not mix by hand.
3. Continue to mix for several minutes until a creamy consistency is achieved, free of lumps of powder.
4. Allow mixture to stand for 5 minutes, remix then use the adhesive.
- Adhesive may need restirring due its pot-life, do not add additional water to the mixture.

APPLICATION

Laying the Tiles
1. Deposit a quantity of adhesive onto the prepared substrate. Do not apply more adhesive than can be tiled within the open time of the product, usually from a single tile up to around 1m2 at a time.
2. Hold the notched trowel at an angle of 60º or greater to the substrate.
3. Spread the adhesive over the area where tile is to be applied, forming straight rows of adhesive "beads".
4. Where "back buttering" is required, use the straight side of the trowel to apply a thin covering of adhesive to the back of the tile.
5. Position the tile on the beaded adhesive and press firmly.
6. Move the tile forward and then back at 90º across the direction of the beads to ensure all beads are flattened leaving no voids under the tile. Occasionally lift a tile after placing it to check that the beads are fully compressed and that sufficient coverage has been achieved (90-100%). Replace the tile.
7. After laying a section at a time, remove any excess adhesive from the surface of the tiles and within the grout joint while the adhesive is still wet.

CLEANING OF TOOLS

- Clean tools and equipment with water before the adhesive dries.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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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.

ISO 9001 = ISO 14001
AS/NZS 4801 = OHSAS 18001

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