



BUILDING TRUST



## PRODUCT DATA SHEET

# Davco POOL TILE ADHESIVE

PREMIUM CEMENT BASED TILE ADHESIVE FOR SWIMMING POOL



TIS. 2703-2559

### DESCRIPTION

Davco POOL TILE ADHESIVE is a polymer modified cementitious tile adhesive for swimming pool. It has a superior resistance to water and temperature variation for immersed area.

### USES

- Wall and Floor
- Exterior and Interior
- Substrates: Cement
- Wet area such as swimming pool, fish pond, fountain, spa and sauna

### CHARACTERISTICS / ADVANTAGES

- Excellent bonding strength.
- Special formulation tile adhesive for swimming pool.
- Suitable for wet and fully immersed areas such as swimming pool, fish pond, fountain, and spa.
- Can be used with various tiles, size larger than 5x5 cm.

### APPROVALS / CERTIFICATES

- EN 12004 C2TE
- TIS 2703-2559

### PRODUCT INFORMATION

Composition	Hydraulic binder, mineral filler, polymer and admixtures
Packaging	20 kg/ bag
Shelf life	12 months from date of production if stored in undamaged and unopened, original sealed packaging.
Storage conditions	Store in dry condition and protected from direct sunshine.
Appearance and colour	Grey powder
Density	1.3 ± 0.1 kg/L
pH-Value	12 ± 1

## TECHNICAL INFORMATION

Tensile adhesion strength	Initial	≥ 1 MPa
	Water immersion	≥ 1 MPa
	Heat aging	≥ 1 MPa
	Open time after 20 minutes	≥ 0.5 MPa
Slip resistance	< 0.5 mm	

## APPLICATION INFORMATION

Mixing ratio	Approx. 4.8 to 5.2 litre water per bag 20 kg			
Consumption	Trowel size	Size of tile (cm x cm)	Surface of tile (cm <sup>2</sup> )	Consumption (20 kg)
	3 mm	2.5 x 2.5	6.25	7 - 8 m <sup>2</sup>
		5.0 x 5.0	25	
	6 mm	10 x 10	100	5 - 6 m <sup>2</sup>
		20 x 20	400	
		20 x 25	500	
		30 x 30	900	
	9 mm	40 x 40	1600	2 - 3 m <sup>2</sup>
		50 x 50	2500	
		60 x 60	3600	
		> 60 x 60	> 3600	
<div>Note:</div> <div>1. This is an average calculation. Actual usage may differ from estimate. Due to the different surface conditions. Surface absorption and the purpose of the individual's use.</div> <div>2. For tile size more than 40 cm x 40 cm should apply tile adhesive on surface and very thin layer on a back of tile.</div>				
Ambient air temperature	+5°C to +35°C			
Pot Life	180 - 240 minutes (at 25°C)			
Open Time	20 - 25 minutes (at 25°C)			
Adjustability time	15 - 20 minutes (at 25°C)			
Applied product ready for use	~ 24 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.

## IMPORTANT CONSIDERATIONS

- Maximum weight of tile for interior/ exterior wall application is 40 kg/ m<sup>2</sup>.
- Maximum weight of tile for swimming pool wall/ floor application is 40 kg/ m<sup>2</sup>.
- Ensure a proper waterproofing membrane was applied before using DAVCO POOL.
- Use a proper notched trowel to spread the adhesive onto the substrate with the flat side of the trowel until it is smooth.
- Use the notched side of the trowel to create an even adhesive bed. minimum bed thickness is 2 mm. for wall and 3 mm. for floor.  
(size depends on the thickness of tiles).
- Ensure the adhesive is wet when the tiles are laid and tapped into the position to ensure full contact with the adhesive. Do not spread more than 1 sqm at once.
- Once the tiles have been laid, leave to stand for 24 hours or the tile adhesive is dry before grouting with DAVCO Tile Grout.
- Do not add additional water or powder after slaking period.  
This is a professional product, all directions must be followed strictly.
- Refer to the Safety Data Sheet.

## 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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- Substrate should be sound, clean, and without any trace of oil. The level should be considered.
- Painted surfaces must be abraded to expose at least 80% of the original substrate.
- New concrete must be allowed to cure at least 28 days.
- New render must be allowed to cure at least 7 days per 1 cm thickness.
- Damp the substrate to decrease water absorption before tiling.

### MIXING

- Mix Davco POOL TILE ADHESIVE 20 kg with 4.8 - 5.2 Litres of clean water by electrical mixer until the compound is evenly distributed.
- Allow the mixture to stand for 2 - 3 minutes for good reaction and reducing air bubble before using the adhesive.

### APPLICATION

- Spread tile adhesive by using notched trowel onto substrate.
- Fix tile on tile adhesive and knocked over with rubber hammer.
- The dual bonding will be applied when size of tile is over than 25 cm x 25 cm. Applying thin layer of tile adhesive onto a back of tile, then fix the tile on tile adhesive substrate.
- Once the tiles have been laid, leave to stand for 24 hours or the tile adhesive is dry before grouting with Davco Tile Grout.

## 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.

## 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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