PRODUCT DATA SHEET

Davco ULTRAFLEX

PREMIUM FLEXIBLE CEMENT BASED TILE ADHESIVE

DESCRIPTION

Davco ULTRAFLEX is a premium flexible tile adhesive, with high-end polymers.

USES

▪ Wall and Floor
▪ Exterior and Interior
▪ Private swimming pool
▪ Spa and sauna
▪ Tile on tile application
▪ High traffic area
▪ On waterproof membranes
▪ Types of substrate : concrete, mortar, cement render

CHARACTERISTICS / ADVANTAGES

▪ Suitable for high traffic and vibration area.
▪ Suitable for all tiles and all sizes onto various substrates such as old tile.
▪ Can be used on Gypsum boards, Viva boards and fiber cement sheet, depends on weight and size (please contact us for more details)
▪ More coverage 15 - 25%.
▪ Excellent bond strength and Superior water resistant for immersed water i.e. swimming pools.
▪ Mix and spread more easily and evenly.
▪ Less mess and faster clean up.
▪ Use on both Walls/Floors, Interior/Exterior.

SUSTAINABILITY

▪ LEED v4 and v4.1 BETA
▪ WELL Building Standard

APPROVALS / CERTIFICATES

▪ EN 12004 C2
▪ ANSI 118.4
▪ TIS 2703-2559

PRODUCT INFORMATION

Composition	Hydraulic binder, mineral filler and admixtures
Packaging	20 kg/ bag 25 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/ White 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 30 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 Approx. 6 to 6.5 litre water per bag 25 kg

Consumption	Trowel size	Size of tile (cm x cm)	Surface of tile (cm$^{2)}$	Consumption (20 kg)	Consumption (25 kg)
	3 mm	2.5 x 2.5	6.25	7 - 8 m²	9 - 10 m²
		5.0 x 5.0	25		
	6 mm	10 x 10	100	5 - 6 m²	6.5 - 7.5 m²
		20 x 20	400		
		20 x 25	500		
		30 x 30	900		
	9 mm	40 x 40	1600	2 - 3 m²	2.5 - 3.5 m²
		50 x 50	2500		
		60 x 60	3600		
		> 60 x 60	> 3600		

Note:
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.
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.

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/ m².
- Maximum weight of tile for swimming pool wall/ floor application is 40 kg/ m².
- 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 sq m 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.
- 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.

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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.

MIXING

- Mix Davco ULTRAFLEX
  - 20 kg with 4.8 - 5.2 Litres of clean water
  - 25 kg with 6 - 6.5 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.

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

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