



BUILDING TRUST



## PRODUCT DATA SHEET

# Davco Bonding Agent

Latex additive for high bonding strength

### DESCRIPTION

Davco Bonding Agent is a synthetic latex emulsion specifically designed for use in cement mortars. Davco Bonding Agent contains an antifoam and specific additive to aid workability. Davco Bonding Agent modified mortars exhibit improved bond, tensile and flexural strength, and durability.

### USES

- To improve resistance to deterioration caused by chloride penetration, carbonation and chemical corrosion.
- To reduce moisture penetration and cracking.

- To improve workability and reduce shrinkage / bleeding.
- To increase adhesion strength of mortars used as tile adhesive or patching mortar.
- To improve abrasion resistance, adhesion to substrates and resistance to water permeation

### CHARACTERISTICS / ADVANTAGES

- Increases adhesion, flexural and tensile strength
- Improves abrasion resistance (less dusting)
- Reduces water permeability
- Increases chemical resistance
- Non-toxic, non-corrosive and non-flammable
- Easy to use
- Does not re-emulsify even in high alkaline conditions

### PRODUCT INFORMATION

<b>Packaging</b>	<ul style="list-style-type: none"><li>▪ 4 L pail</li><li>▪ 20 L pail</li></ul>
<b>Shelf life</b>	12 months from date of production
<b>Storage conditions</b>	Store properly in dry conditions, in undamaged and unopened, original sealed packaging. Keep away from direct sunlight.
<b>Appearance and colour</b>	Milky white liquid
<b>Ambient air temperature</b>	+5 °C min. / +45 °C max.
<b>Substrate temperature</b>	+5 °C min. / +45 °C max.

### 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, stor-

age 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 QUALITY / PRE-TREATMENT

All surfaces must be structurally sound, dry, clean and

free from movement, oil, grease, wax, curing compound and any other loose or contaminating materials which will inhibit proper bond. Dusty concrete or masonry should be swept clean and dampened with water.

New concrete must be allowed to cure for 6 weeks.

Old concrete surface must be thoroughly cleaned.

Make sure all release agents are removed from concrete surfaces, especially on tilt-up slabs.

Painted surface must be scabbled / abraded to expose the original substrate.

Newly or old rendered / screeded surface must be thoroughly cleaned prior to tiling and have a wood float finish. Screeds should be allowed to dry out slowly after curing to reduce the risk of curling. Cement-sand leveling screeds should be cured for at least 7 days and be subjected to continuous air drying after curing for at least 2 weeks before the tiles are laid. Please refer to BS 5385 or MS 1294.

It is the user's responsibility to determine the condition and suitability of all surfaces prior to application.

## MIXING

Mix sand and cement first, then add Davco Bonding Agent solution as required (Davco Bonding Agent solution is Davco Bonding Agent diluted with water). Mix using a trowel or with a low speed drill until a homogenous mortar is attained.

## APPLICATION

### As primer coat

(To improve adhesion to substrates)

The substrate surface should be thoroughly dampened with water to saturated-surface-dry condition (SSD).

Free standing water should be removed. A primer consisting 1 part neat cement mixed with 1 part sand and 1 part Davco Bonding Agent by volume should be vigorously worked onto the substrate surface with brush / stiff broom. Apply the overlay mortar/screed whilst the primer coat is still wet (wet-on-wet application).

### As weatherproof bonding, coping and tiling

The prepared surface should be thoroughly dampened with water to saturated-surface-dry condition (SSD).

Free standing water should be removed. A primer coat should be applied to the substrate surface and also to the back of the tile. Whilst the primer coat are still wet, bed the tiles onto the LMC (Latex-Modified Concretes) mortar. Vertical applications will require support.

### As general purpose and waterproof wall renderings

The prepared surface should be thoroughly dampened with water to saturated-surface-dry condition (SSD).

Free standing water should be removed. It is recommended that a priming coat is applied. The thickness

of LMC renderings should be restricted to about 7 mm for each layer to avoid sagging (of the render).

For higher thickness several layers may be applied in relatively quick succession (typically 1–2 hours). It is necessary to allow each layer to set adequately before receiving the subsequent layer. If the main purpose of the render is for water resistance, the recommended concentration of Davco Bonding Agent is increased to about 30–40 parts per 100 parts of cement.

Davco Bonding Agent	Portland cement	River sand
18.5 kg	50 kg	150 kg

NOTE: Add up to 10 L of water. Since Davco Bonding Agent has a considerable plasticizing action, gradually add the water until the required consistency is attained.

## CLEANING

Excess Davco Bonding Agent and tools can be cleaned with water while the product is still fresh.

## LOCAL RESTRICTIONS

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

## 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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### Product Data Sheet

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