



Davco

173 FLOOR LEVELLER

SELF LEVELLING UNDERLAYMENT FOR INTERNAL APPLICATIONS



ECO FRIENDLY



HIGH STRENGTH



HIGH FLUIDITY

DESCRIPTION

Davco 173 is a cement based, internal, self levelling, underlayment designed for levelling floors. Davco 173 can be feather-edged and depending on the application, can minimise trowelling. It requires the addition of only water to achieve a highly fluid consistency producing a smooth, level and hard surface.

USES

Davco 173 is used to repair, fill or level surfaces in new construction or for corrective work. It is suitable for internal applications. Davco 173 is used as an underlayment prior to installation of carpet, vinyl, tiles or other floor covering systems. It can be walked on after 4 - 6 hours and can receive floor coverings 12 hours after installation. Davco 173 is not a wearing surface and must be protected with a compatible topping, floor covering or coating.

SURFACE PREPARATION

- Surfaces must be dry, structurally sound, clean, free of dust, dirt, wax, oil, grease, asphalt, mastic, latex compounds, adhesives, paint, gypsum based products and other contaminants.
- All concrete sub-floors must be fully cured and dry. They must be free of laitance, loose or deteriorated concrete, curing or form release agents, other contaminants and have a wood float finish. For subfloors with a high moisture content or subject to rising dampness, apply Davco 124 Ultraprime.
- Non-porous surfaces, such as power trowelled or steel floated concrete, must be primed with Davco Supaprime. Alternatively, they can be acid etched or mechanically abraded.
- Patch large cracks and holes with Davco 731 or 712 Concrete Repair Mortar.
- Any construction joints in the underlying subfloor should be carried through the Davco 173 to avoid cracking.

SURFACE PRIMING

- Priming is crucial prior to the application of Davco 173. It is designed to improve adhesion and greatly reduce pinholing in the finished floor.
- Porous concrete surfaces must be primed with Davco 124 Ultraprime/ Davco Acrylic Primer.

- Under hot, windy conditions (Temp. above 30°C), it is essential to wet down any concrete slabs with water prior to priming, so that the primer does not flash dry. After washing down the floor, do not allow the water to pool or pond on the surface. The substrate should appear matt, with no signs of glistening water evident prior to application of the primer.

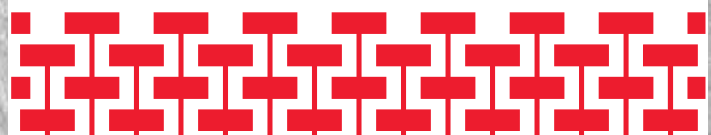
MIXING INSTRUCTIONS

- Mechanical mixing produces a much smoother mix. Concrete mixers or hand mixing are not suitable mixing methods.
- Add approximately 5.0 - 6.0 Litres of potable water to a clean bucket and then slowly add the 25kg bag of Davco 173. Mix for 2 minutes and long enough to provide a smooth, lump free, flowable blend. If foaming and streakiness appear on top of the mixture, Davco 173 is over-watered and should not be placed on the substrate.
- Do not mix more material than can be placed in 10 minutes.
- Davco 173 is not recommended for applications requiring pumping.
- Clean mixers and tools thoroughly after each batch to avoid material build up.

APPLICATIONS TECHNIQUES

- Place Davco 173 on to the primed surface. Move it into approximate position with an underlayment spreader and allow the material to seek its own level.
- Place Davco 173 soon after mixing. It will achieve initial set in approximately 2 - 3 hours and may be walked on in approximately 4 - 6 hours.
- Davco 173 must cure 12 hours before any floor coverings are installed. Although Davco 173 is recommended for internal use only, 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).
- Davco 173 may be layered up to 10mm in thickness without aggregate. Additional layers may be applied directly over the surface as soon as it will support foot traffic. Davco 124 Ultraprime / Davco Acrylic Primer must be used if more than 24 hours passes before the new material is applied.

BUILDING TRUST





173 FLOOR LEVELLER

COVERAGE

- One 25kg bag of Davco 173 cover approximately 15.2m² at 1mm thickness.

CLEAN - UP

- Clean mixing and application equipment with water immediately following use.
- Remove splatter or spills with water before material sets.

PRECAUTIONS

- Ensure all surface preparation and priming instructions are followed precisely.
- Construction joints in the sub-floor must be detailed through Davco 173 to prevent cracking.
- Davco 173 should not be over-watered, over-mixed, or remixed with additional water. Any material over 10 minutes old should be discarded and not used.
- Do not add cement, lime, gypsum, plaster, bonding agents, aggregates or other materials except where specified on this brochure.
- Do not mix or apply Davco 173 when temperatures are below 5°C or above 35°C. Also, do not apply if temperatures are expected to reach these levels for at least 24 hours after application.
- Wherever possible, test areas are recommended to ensure the suitability of the product for the intended use. This should include the floor finishing/covering.

HIGH STRESS AREA

- Davco 173 is not recommended for use in areas of high stress or under exacting conditions eg. installation over timber flooring, fibre cement sheeting, metal decks, over existing floor coverings, such as ceramic tiles and quarry tiles, any subfloors subject to movement or vibration, over heated sub-floor.

PACKAGING

25 kg bag

FLOOR COVERINGS

As a general guide, the surface finish of Davco 173 is not dissimilar to concrete. Any adhesives used to bond subsequent floor coverings that are compatible with concrete will be compatible with Davco 173, strictly follow the floor covering adhesive manufacturers instructions.

SHELF LIFE / STORAGE

- Storage: must be stored in a cool, dry elevated place and protected from high humidity.
- Shelf Life: Up to 6 months in unopened bags if stored as specified above.

SAFETY

- Being cement based, Davco 173 is alkali in nature, which can cause dermatitis. Thus, when using Davco 173, it is recommended that applicators wear PVC or similar gloves and safety goggles. Refer to safety data sheet.

TECHNICAL DATA

Compressive Strength ASTM C109/109M - 2005	27.9
Stiffening Time BS EN 1015:Part 9:1999 (Method A)	@ 1 N/mm ² , 2.5 hours @ 2 N/mm ² , 3 hours
Flexural Strength BS EN 1015-11:1999 (Adopted)	6.2 N/mm ²
Shrinkage @ 28 days ASTM C531:2000	0.04%
Tensile Adhesion Strength BS EN 13892-8:2002	1.6 N/mm ²
Taber Abrasion Resistance ASTM D4060:01-Adopted Avg weight loss	@ 200 cycles, 1.54g @ 500 cycles, 3.57g @ 1000 cycles, 6.04g
Impact Resistance ASTM D2794:93 (2004) - Adopted	3.99mm
Foot Trafficable	4 - 6 hours
Ready to receive floor coverings	12 hours onwards
Working Time at 25°C	Approx. 10 mins

Disclaimer

The use of this product is beyond the manufacturer's control and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. Specifications are subjected to changes without prior notice. Before application, customers and users are requested to check that they have the latest version of this document from our website www.sika.com.sg

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