DECO CRETE
EUROPEAN CONCRETE TECHNOLOGY

decoSIL

DESCRIPTION

decoSIL is a silicate hardener, containing lithium, colloidal and other silicates which improves the hardness and abrasion resistance of concrete.

The product reacts with a soft salt in the concrete to form hard crystals, which densify the concrete.

decoSIL makes the concrete harder and more easy to polish.

decoSIL also can be used as an economical dust proofer and hardener of industrial concrete floors.

KEY BENEFITS OF decoSIL

- Makes the concrete surface harder, abrasion resistant and durable.
- Eliminates the dusting of concrete
- Penetrates very well into concrete.
- Qualifiable for LEED points, very low in VOC
- .decoSIL penetrates 8 to 16 mm into the concrete.

USES

CONCRETE FLOORS OF:

- Factories: furniture, electronical parts, garments, shoes.
- Warehouses & Hangars: food and beverage, airplanes, retail, etc
- Hypermarkets
- Parking garages
- Commercial: Restaurants, stores, shopping malls, etc.

ESTIMATED COVERAGE

Approximately 12 – 18 m2/kg

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APPLICATION INSTRUCTION

STEP 1: SURFACE PREPARATION

Surfaces should be cleaned and free of dust, loose particles, grease, stains or anything which could prevent the product penetrating the surface

Recommended surface preparation is carried out by sanding the surface in order to get rid of contamination and to open the pores of the surface. For larger surface areas professional machines with suitable abrasive discs or pads should be used.

Surface areas should be dry so the product can penetrate.

STEP 2: APPLICATION OF decoSIL

Lightly stir before each use. Do not over mix or bubbles and/or foaming can occur making uniform application more difficult.

Application by means of spraying and/or microfibers. Spread out evenly.

The product should penetrate and dry within 15 to 30 minutes of application. In the event of over application, a slightly tacky substance may remain at the surface after this period. The substance has to be removed using water.

During cool weather or high humidity it may take longer for the product to dry

If used during a concrete polishing process:

decoSIL can be applied after each polishing step, starting with the resin pads grit 100. After the liquid has penetrated and is no longer glistening on the surface, continue to polish.

HEALTH & SAFETY INFORMATION

KEEP OUT OF REACH OF CHILDREN.

Dispose of waste material in accordance with local requirements. Although the material is non-toxic and non-hazardous, the treatment contains alkaline and may cause eye and skin irritation. Wear eye protection and gloves. If splashed in eyes, rinse with water and consult a doctor if irritation persists.

Wash promptly from skin. Do not take internally if swallowed, do not induce vomiting drink water and call a physician. Avoid contact with eyes. Protective clothing is recommended. Surfaces may be slippery when wet with product.

PROPERTIES OF THEPRODUCT

Indicative values

Active Solid Content	22,3 %
Specific Gravity	1.17
pH	11,5
V.O.C Content	<3 g/L
Flash Point	N/A
Freeze Point	0ºC
Shelf Life	1 Year in unopened factory sealed container

MECHANICAL/ PHYSICAL PROPERTIES OF CONCRETE TREATED WITH decoSIL

Indicative values

Internal Test	
Abrasion Test	40 % Increase of the abrasion resistance for concrete grade 250 (TCVN). (Taber abrader, H 22 Wheel, 1000 cycles, 1000 gram load, ASTM D 4060)
Hardness Test	Moh's hardness increases from 4 to 6 for concrete grade 250 (TCVN).
Gloss Test	Gloss increases from 4,5 GU to 30 GU. (Gloss measurement with geometrical angle of 85, ASTM D 523)

CAUTION

- Protect from freezing. Agitate before use. Do not allow traffic on surface until it is dry.
- Protect adjacent surfaces. Remove overspray quickly with a damp cloth and soap.
- Always do a test patch before beginning the job to verify coverage, appearance, and surface material variations. Check the website from the manufacturer for the latest update from this TDS.

PACKAGING

25 kg plastic can