

High-performance self-levelling polyurethane-cement flooring system

DESCRIPTION

D-Cem SL is a high-performance self-levelling polyurethane-cement flooring system specially designed for medium-duty industrial and commercial applications. It provides a seamless, durable and hygienic floor finish with excellent resistance to abrasion, impact, thermal shock and a wide range of chemicals. The system offers superior mechanical performance and is suitable for areas exposed to wet and dry operating conditions.

RECOMMENDED USE

- Food processing plants
- Wet and dry process areas
- Chemical plants and laboratories
- Medium-duty industrial floors
- Commercial and production facilities
- Hygienic seamless flooring areas

FEATURES AND BENEFITS

- Seamless self-levelling finish
- Good abrasion and impact resistance
- Chemical and detergent resistant
- Thermal shock resistant
- Slip resistant in wet and dry conditions
- Hygienic and low VOC
- Easy to apply
- Suitable for medium-duty industrial and commercial use

PRODUCT INFORMATION

Compressive Strength	45 MPa @ 28 days
Flexural Strength	7 MPa @ 28 days
Shore Hardness	85 ± 3 (D)
Temperature Resistance	High thermal resistance
Pot Life	20–25 min @ 25°C
VOC Content	Low VOC
Coverage	30-31 sft @ 4 mm
Foot Traffic	18–24 hours
Package	20 kg

Statement of Responsibility (Disclaimer)

The technical information and application advice are based on present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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APPLICATION PROCEDURE

General

D-Cem SL shall be applied in accordance with the recommended guidelines by trained personnel.

Surface Preparation

The concrete substrate shall be sound, clean and free from dust, oil, grease, laitance, curing compounds and loose particles. Minimum compressive strength shall be **25 MPa**, pull-off strength **1.5 MPa**, and moisture content not exceeding **10%**. Prepare the surface by shot blasting, grit blasting or scarification to achieve **CSP 4–9**.

Mixing Procedure

Premix Resin until homogeneous. Add Colour pigment and mix for 1–2 minutes. Add Hardener and mix for another 1–2 minutes. Gradually add Aggregate and mix for 2–3 minutes until a smooth, flowable consistency is obtained.

Priming / Scratch Coat

Apply the mixed material as a scratch coat using a steel trowel at **1–1.5 mm thickness**. Broadcast aggregate onto the wet surface for mechanical keying. Allow curing for **18–24 hours** and remove excess loose aggregate before applying the body coat.

Application of D-Cem SL

After mixing, spread D-Cem SL using a cam rake, pin screed rake or steel trowel at 4–6 mm thickness. Maintain a continuous wet edge during application.

De-aeration

Roll the surface with a spike roller in two directions immediately after application to remove entrapped air and achieve a smooth finish.

Precautions

Wear appropriate personal protective equipment during application. Clean tools immediately after use. Refer to the latest MSDS before handling or using the product.

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