cemseal®

Technical Data Sheet

CEMSEAL FLEX

HIGH PERFORMANCE FLEXIBLE CEMENTITIOUS WATERPROOFING COATING

DESCRIPTION

CEMSEAL FLEX is a two-component flexible cementitious liquid-applied coating. The coating has excellent tensile and elongation properties, excellent adhesion to concrete and is suitable for use in potable water storage. It provides a breathable waterproofing coating while maintaining waterproofing watertightness.

FEATURES AND BENEFITS

- Seamless
- Flexible
- Moisture tolerant, can be applied on a damp substrate
- Complies with SS 375 for potable water storage structures

RECOMMENDED USE

- Internal and external wet areas
- Balconies
- Water features
- Swimming pools
- Potable water tanks
- Water retaining structures

PRODUCT PROPERTIES

Pack Size	Part A : 15kg Part B : 20kg
Appearance	Part A : White liquid Part B : Grey powder
Specific Gravity	Part A+B : 1.69 ± 0.05
Service Temperature	-15°C to 45°C

TECHNICAL PROPERTIES

Properties	Test Method	Typical Value
Tensile Strength	ASTM D412	≥ 1.6 N/mm²
Elongation at Break	ASTM D412	≥ 220%
Water Vapour Transmission	ASTM E96	≥ 0.5 g/m²/hr
Water Penetration	DIN 1048-5	No leakage
Adhesion to Concrete	ASTM D4541	≥ 1.0 MPa
Crack Bridging	ASTM C836	≥ 2mm
Shore Hardness	ASTM D2240	40
Set-to-touch	ASTM D1640	≤ 2 hr
Chloride Content	ISEA	≤ 0.1%
Resistance to Root Penetration	DIN 4062	Passed

SUBSTRATE REQUIREMENT AND PREPARATION

The substrate and supporting structure must be of sufficient structural strength for application of waterproofing build-up. The substrate shall be smooth, clean, free of dust, curing compound, mould release agent, laitance, loose particles and other contaminants. All joints shall be prepared and filled with suitable filler or sealant. Any honeycomb, crack or damage to the concrete substrate shall be repaired with suitable cement mortar. The acceptable concrete substrate shall be in accordance with ICRI Concrete Surface Profile 1 to 5. Dampen the substrate and remove excess water. Allow substrate to reach saturated surface dry (SSD) condition before application of CEMSEAL FLEX.

APPLICATION

Mixing

Pour the Part A liquid component into a clean mixing container. Gradually add Part B powder component whilst mixing with a slow-speed mechanical mixer. Mix thoroughly until lump-free homogeneous consistency.

Coating

CEMSEAL FLEX can be applied with roller, brush or airless spray. Apply CEMSEAL FLEX at a rate of 1.0 kg/m² per coat. A minimum of 2-coat application is recommended, with each subsequent coat applied in perpendicular direction to the prior coat to achieve a uniform coating.

A minimum of 3-coat application is recommended for water retaining structures such as water tanks and swimming pools

Theoretical coverage:
- 1.95 kg/m² @ 1.0mm DFT
- 2.35 kg/m² @ 1.2mm DFT

COMPATIBILITY

CEMSEAL FLEX is compatible with most building materials and substrates.

STORAGE AND SHELF LIFE

Storage

CEMSEAL FLEX should be stored in original manufacturer's packaging and position, at room temperature between 5°C and 25°C in a shaded, cool, dry and away from direct sun exposure. It shall also be stored at least 2 metres away from direct heat source.

Shelf Life

Expected 12 months shelf life with the above-mentioned storage conditions.

HEALTH AND SAFETY

User must refer to Safety Data Sheet before usage of this product.

BASIS OF TECHNICAL DATA

All technical data provided in this Technical Data Sheet are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Disclaimer:
The information and any recommendations relating to the application and end-use of all CEMSEAL products are provided in good faith based on CEMSEAL's knowledge and experience of the products. In applications, the differences in materials, and variances of substrates and actual site conditions can vary such that no warranty in respect of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be taken as inferred either from this information, or from any written recommendations, or from any other advice offered by CEMSEAL. The proprietary rights of third parties must be observed. All orders are accepted subject to our sale terms and conditions. All users should always refer to the most recent and up to date issue of the Technical Data Sheet for the product concerned, which is available on request. It is recommended that products should always be properly stored, handled and applied under tested and recommended conditions.

For More Information:

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