cemseal®

Technical Data Sheet

CEMSEAL SLURRY 170

CEMENTITIOUS SLURRY WATERPROOFING COATING

DESCRIPTION

CEMSEAL SLURRY 170 is a two-component, latex-modified polymer cementitious waterproofing slurry coating. It is supplied in pre-packaged kits to ensure consistent quality control. When mixed on site, the slurry forms a durable, seamless waterproof membrane that can be applied to concrete and a wide range of construction substrates to protect against water ingress.

FEATURES AND BENEFITS

- Pre-packaged two-component system ensures consistent quality control on site
- Easy to mix and apply by brush or roller, forming a fully bonded, monolithic waterproofing membrane
- Can be applied to damp substrates without loss of performance
- Highly compatible with cement-based tile adhesives
- Non-toxic formulation, suitable for use in confined or sensitive areas

SUITABLE USES

CEMSEAL SLURRY 170 is suitable for waterproofing applications in the following areas:

- Internal wet areas such as kitchens, bathrooms, toilets, and laundries
- Balconies, terraces, and external decks
- Planter boxes and canopies
- Concrete water tanks
- Swimming pools and pool decks
- Water features, ponds, and reflective pools
- Reinforced concrete (RC) car porch decks
- RC gutters and drainage channels
- Basements and retaining walls

TECHNICAL DATA & PROPERTIES

Typical properties at (25 ± 1)^{0}C and (50 ± 5)% Relative Humidity (RH) under laboratory conditions	
Form (Pre-blended, two component system)	Part A - Liquid
	Part B - Powder
Appearance After Mixing	Grey Slurry
Resin	Latex modified polymer
Binder	Cement
Extender	Fine silica
Pull-Off Adhesion Strength (ASTM D7234 - 21)	≥ 3 N/mm^2
Water Impermeability (BS EN 14891 : 2017 Clause A.7) Determination of Weight Gain Under Water Pressure of 150 kPa for 7 Days	(3.3 ± 0.3) g
Water Impermeability (BS EN 14891 : 2017 Clause A.7) Determination of Maximum Depth of Penetration Under Water Pressure of 150 kPa for 7 Days	No Water Was Penetrated Inside The Concrete For All Samples
Tensile strength (ASTM D 412)	≥ 0.5 N/mm^2
Hardness (Shore A) (ASTM D 2240)	≥ 50
Set-to-touch (ASTM D 1640)	≥ 60 mins
Final set	Approx. 24 hours

Specifications are subject to change without prior notice. Results shown are typical and reflect the test procedures used. Actual field performance will depend on installation methods, site conditions, and the service environment.

INSTALLATION INSTRUCTIONS

SUBSTRATE REQUIREMENT AND PREPARATION

All substrates shall be sound, clean, and free from contaminants such as dust, laitance, oil, grease, curing compounds, loose particles, and excess mortar. Any surface defects, including cracks, voids, honeycombs, or spalled areas, shall be repaired using a suitable cementitious repair mortar to achieve a smooth, stable, and defect-free substrate. For dry substrates, pre-wet the surface thoroughly to a Saturated Surface-Dry (SSD) condition prior to application. Remove all free or standing water and allow the substrate to reach SSD condition before applying CEMSEAL SLURRY 170. This ensures proper adhesion and prevents premature drying of the coating.

MIXING

Component		Weight (kg)	Mix Ratio
Liquid Polymer	Part-A	5	1
Powder Binder	Part-B	20	4
Total (kg/set)		25	

Pour the liquid component (Part A) into a clean mixing container. While continuously stirring, slowly add the powder component (Part B). Mix using a heavy-duty electric drill fitted with a suitable paddle at a maximum speed of 500 r.p.m. Continue mixing until a smooth, lump-free, homogeneous slurry is achieved. Ensure that no unmixed powder remains at the sides or bottom of the container. For small quantities, mixing may be carried out manually, provided a uniform consistency is achieved.

APPLICATION

Apply the mixed CEMSEAL SLURRY 170 onto the prepared substrate using a roller, bristle brush, or other suitable applicator. Work the material firmly into the surface to ensure full contact and proper bonding. CEMSEAL SLURRY 170 shall be applied in a minimum of two (2) coats. Apply the first coat in one direction, followed by the second coat in a perpendicular (crosswise) direction to ensure complete coverage and the formation of a uniform waterproofing membrane. Allow the previous coat to cure for approximately 2–4 hours (depending on temperature and humidity) before applying the subsequent coat.

CURING

The applied CEMSEAL SLURRY 170 coating shall be protected from rapid drying, direct sunlight, strong winds, and excessive heat during the curing stage. Allow the coating to cure for a minimum of 24 hours before permitting foot traffic or applying subsequent finishes. Proper curing ensures the development of optimum strength and waterproofing performance.

CLEAN UP

All tools, equipment, and surrounding areas shall be cleaned immediately with clean water before the product begins to set. Once hardened, CEMSEAL SLURRY 170 can only be removed mechanically.

RECOMMENDED COVERAGE

Bathrooms, Balconies, and General Wet Areas
Total Consumption: ~2.0 kg/m²
Application: 2 coats
Coverage rate: ~1.0 kg/m² per coat

Hydrostatic Pressure Areas
(e.g., water tanks, swimming pools, water features, planter boxes, retaining walls)
Total Consumption: ~3.0 kg/m²
Application: 3 coats
Coverage rate: ~1.0 kg/m² per coat

PACKAGING

CEMSEAL SLURRY 170 is supplied as a two-component system in 25 kg/set comprising:
Liquid Polymer (Part A): 5 kg Jerry can
Powder Binder (Part B): 20 kg paper bag

SHELF LIFE AND STORAGE

CEMSEAL SLURRY 170 has a shelf life of 12 months when stored in its original, unopened packaging. Store all materials in a cool, dry, and well-ventilated area, elevated off the ground and protected from direct sunlight, moisture, and extreme temperatures.

PRECAUTIONS

Wear appropriate protective clothing, including dust masks, gloves, and eye protection during handling and application. Prolonged or repeated contact with cement-based products may cause skin irritation. In the event of skin contact, wash the affected area thoroughly with clean water for at least 15 minutes.
If irritation persists, seek medical advice immediately.

HEALTH AND SAFETY

This product is classified as non-hazardous and non-toxic under normal use conditions. However, proper handling and good industrial hygiene practices are essential to ensure safety. For additional information, please refer to the Material Safety Data Sheet (MSDS).

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. Due to differences in materials, variances in substrates, and actual site conditions, no warranty regarding fitness for a particular purpose, nor any liability arising from any legal relationship whatsoever, can be inferred either from this information, any written recommendations, or any other advice offered by CEMSEAL. The proprietary rights of third parties must be observed. All orders are accepted subject to our sales terms and conditions. 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 upon request. It is recommended that products be properly stored, handled, and applied under tested and recommended conditions.

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