cemseal®

Technical Data Sheet

CEMSEAL STP 600 BC

SINGLE COMPONENT, ISOCYANATE FREE, SILANE TERMINATED POLYMER (STP) BASED LIQUID APPLIED MEMBRANE

DESCRIPTION

CEMSEAL STP 600 BC is a liquid-applied, isocyanate-free waterproofing membrane based on Silane Terminated Polymer (STP) technology. It cures through reaction with atmospheric moisture to form a durable, flexible barrier that effectively prevents water penetration. The membrane delivers outstanding tensile strength, elongation, abrasion resistance, and chemical resistance. Its versatility makes it ideal for use in waterproofing, floor coating, and protective coating applications.

FEATURES AND BENEFITS

- Easy application
- No mixing, ready to used
- Moisture tolerant
- Abrasion resistant
- UV resistant with application of CEMSEAL PU-Top 688
- Ultra-low VOC & green formulation (isocyanate-free, solvent-free, acid-free)
- Stays elastic after curing with high crack-bridging ability
- Excellent durability for long-term protection
- Seamless

RECOMMENDED USE

- New construction and refurbishment projects
- Flat roofs
- Inverted roofs
- High slope roofs
- Podiums and Balconies
- Green roofs and planters
- Internal and external wet areas under tiles/finishing

PRODUCT PROPERTIES

Pack Size	20kg pail
Appearance	Pigmented Thixotropic Liquid (Grey)
Specific Gravity	1.53 ± 0.05 g/ml
Solid Content	100%
Smell	Almost odourless
VOC	Solvent free, Low VOC, ≤50g/L

TECHNICAL PROPERTIES

Properties	Test Method	Typical Value
Tensile Strength	ASTM D412	≥ 1.5 N/mm^2
Elongation at Break	ASTM D412	≥ 600%
Watertightness	EN 1928	No leakage
Adhesion to Concrete	ASTM D7234	≥ 2.5MPa
Shore A Hardness	ASTM D2240	40
Chemical Resistance	Resistant to many chemicals. Contact Cemseal Technical for additional information.	

SUBSTRATE REQUIREMENT AND PREPARATION

Suitable substrates: Cementitious, brick, stone, aged bituminous coatings and felts*, metals*, asbestos cement, ceramic tiles (unglazed), wood. 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. *Please contact Cemseal Industries Sdn Bhd for more information.

APPLICATION

Application Temperature	0°C to 55°C
Dew Point	Min. +3°C above dew point between substrate and uncured coating
Substrate Moisture Content	≤ 6% parts by weight
Relative Humidity	≤ 80%
Tack Free	~3hours (25°C)
- Re-coating time	~4-6 hours depending on condition
- Full cure for ponding test	~72 hours from last layer

Primer

Product can be self-primming. Additional layer of CEMSEAL PRIMER PU-S at a rate of 0.2 - 0.3 kg/m^2 to be used for substrate Pull off strength ≤ 1.5 N/mm^2 and moisture content ≥ 2.5cm

Coating Application
CEMSEAL STP 600 BC should be applied by hand brush, roller, trowel or squeegee. Apply subsequent coats at different direction of previous coat. Apply in criss cross manner is by brush.

Theoretical coverage:
• 1.01 kg/m^2 at 1mm
• Min. 0.6kg/m^2 per coat at min. 2 coats.

Topcoat
For exposed areas, apply CEMSEAL PU-TOP 688 by roller, brush or airless spray at a rate of 0.15-0.20kg/m^2. Ensure no foot traffic or other activities for 8 to 18 hours to allow for full cure.

STORAGE AND SHELF LIFE

Storage
CEMSEAL STP 600 BC 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.

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