

cemseal®

Technical Data Sheet

CEMSEAL APP TOM

APP MODIFIED BITUMEN PREFORMED WATERPROOFING MEMBRANE

DESCRIPTION

CEMSEAL APP TOM is a modified bitumen membrane with Atactic Polypropylene which enhances durability, thermal resistance and elasticity in high and low temperatures. The membrane is reinforced with non-woven polyester ensuring good mechanical characteristics and excellent dimensional stability. Coloured mineral slates provide pleasing aesthetic, protection against foot traffic and enhance UV stability. For concealed application, the top surface of the membrane is sand coated to ensure bonding of the overlying layer.

FEATURES AND BENEFITS

- Consistent thickness
- UV resistant (mineral slate version)
- Good mechanical properties
- Good cold flexibility
- Fully bonded
- Burn-off film for easy application

RECOMMENDED USE

- Exposed flat or slope roofs
- Balconies and terraces
- Reinforced concrete slab

PRODUCT PROPERTIES

Roll Size	1m (width) x 10m (length)
Appearance	Conceal grade : Sand coated Exposed grade : Green/Grey slate Other colours available upon request
Mass per unit Area	Conceal grade : 3.0kg/m ² Exposed grade : 4.5 or 5.0kg/m ²
Thickness	Conceal grade : 3mm

TECHNICAL PROPERTIES

Properties	Test Method	Typical Value
Dimensional Stability	SS 374 Appendix A	± 0.5%
Tensile Strength	SS 374 Appendix B	≥ 3.0 N/mm ² (long.) ≥ 3.0 N/mm ² (trans.)
Elongation at Break	SS 374 Appendix B	≥ 45% (long.) ≥ 45% (trans.)
Tensile Shear at Joints	SS 374 Appendix C	Failure occurred outside of joint
Pliability	SS 374 Appendix D	No surface rupture was observed
Soluble Matter	SS 374 Appendix E	≤ 0.3%
Water Absorption	SS 374 Appendix E	≤ 1.0%
Water Vapour Transmission	SS 374 Appendix F	≤ 0.5g/m ² /hr
Resistance to Hydrostatic Head	SS 374 Appendix G	No leakage
Resistance to Leakage at Joints	SS 374 Appendix H	No leakage

SUBSTRATE REQUIREMENT AND CONDITION

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.

APPLICATION

Priming

Apply CEMSEAL PRIMER BT-S or equivalent bitumen-based primer either by roller or airless spray at 0.18 - 0.23 kg/m² (0.2 - 0.25 l/m²). Allow primer to dry tack-free prior to application of membrane. Where substrate is porous, it may be necessary to re-prime the substrate. Re-prime is required should there be more than a 24-hour gap between primer and application of CEMSEAL APP TOM.

Alignment

Unroll, align and re-roll carefully before torching.

Side lap: min. 80 mm

End lap: min. 150 mm

Membrane Laying

Use a purpose made propane gas torch for the membrane application. Pass the flame on the substrate and burn-off film on the underside of the membrane. When the film melts, roll the membrane forward, press firmly and ensure no entrapped air.

Ensure a bead of melted bitumen compound is visible along the side and end overlaps, carefully levelled by trowel to form a watertight seal.

COMPATIBILITY

CEMSEAL APP TOM is compatible with CEMSEAL ACH range of waterproofing coatings.

STORAGE AND SHELF LIFE

Storage

CEMSEAL APP TOM 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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