PIRASEAL SPM-C

ONE-PART, MOISTURE CURED

POLYURETHANE WATERPROOFING MEMBRANE

DESCRIPTION

Piraseal SPM-C is a thixotropic, one-part, liquid applied, moisture cured polyurethane waterproofing membrane, suitable for waterproofing most non-exposed applications. Piraseal SPM-C cures to form a seamless, tough, durable, elastomeric waterproofing membrane. Piraseal SPM-C has excellent adhesion to most suitably primed building substrates and is suitable for above and below ground applications.

FEATURES/BENEFITS

- Class III Membrane in accordance with AS 4858 and Class II in accordance with AS 4654.1
- Fast drying
- Tar and bitumen free
- Permanently flexible
- Good chemical resistance
- Excellent adhesion to a wide variety of substrates
- Single pack

TYPICAL APPLICATIONS

It is recommended for waterproofing areas such as internal wet areas, balconies, decks, retaining walls* and planter boxes*.

* The addition of the Piraseal Root Inhibitor Additive is required.

PERFORMANCE DATA AND PHYSICAL PROPERTIES

Performance data and physical properties @23°C & 55% RH.

- Allow 24 hours between coats.
- Allow 48 hours drying prior to covering with cement screeds.
- Allow a minimum of 72 hours prior to the installation of Piraetec Drainage Cell.
- Allow 7 days to fully cure.

Wet Form

- Appearance.....Charcoal
- Solids content.....80%

SUBSTRATES

Piraseal SPM-C is suitable for concrete, render, screeds, block work, fibre-cement sheeting, wet area grade plasterboard, PAA certified structural and marine plywood and lightweight structural fibre cement sheeting.

PREPARATION

All surfaces to be waterproofed must be firm, clean, dry, sound and smooth. All laitance, grease, oil, wax, curing compounds, loose material, paint and any other contaminants which may reduce or prevent adhesion must be mechanically removed. Masonry surfaces must be pointed flush and surface defects repaired.

New concrete must be cured for a minimum of 28 days.

Render, cement screeds and core-filled block work must be cured for a minimum of 7 days.

Fibre cement sheeting, water resistant plasterboard, PAA structural and marine plywood and lightweight structural fibre cement sheeting must be installed in accordance with the manufacturers' installation requirements.

Piraseal SPM-C requires a fillet (bond breaker) using Piraseal Flex sealant at all horizontal and vertical transitions.

STATIC CRACK TREATMENT

For static cracks less than 1mm, clean cracks thoroughly before filling with Piraseal Flex.

Piraseal SPM-C cannot span gaps. For dynamic cracks/expansion joints and control joints, the use of Piraseal Elastoband SG or Piraseal Butyl Tape systems is recommended. Contact the Piraetec Technical Department for further advice.

PRIMING

Dry porous substrates must be primed with Piraseal Primer S. Damp substrates with a RH of <75% must be primed with Piracoat WBE. Lightweight structural fibre cement sheeting must be primed with Piracoat WBE.

PRIMING NON-POROUS SUBSTRATES

1. Piraseal Primer AP is recommended for non-porous plastic and metal substrates (Except HDPE).

2. Prime all plastics and metallic non-porous substrates with Piraseal Primer AP using the two-cloth method described below.

3. UPVC outlets and pipe work: brass, copper fittings, stainless steel trays and flashings.

TWO CLOTH METHOD - PIRASEAL PRIMER AP APPLICATION

- Dampen a clean and dry cloth with Piraseal Primer AP and spread evenly over the non-porous substrate using a cleaning/rubbing action.
- With a second clean and dry cloth, immediately wipe all primer residue of with a buffing action.
- Allow the substrate to dry for a minimum of 5 minutes before installing Piraseal SPM-C.
- Do not leave the primer longer than 4 hours before applying sealant/adhesive.
- Re-prime if 4 hours has elapsed without applying Piraseal SPM-C.
- Clean and re-prime if the primed surface is contaminated before Piraseal SPM-C is applied.

APPLICATION

Piraseal SPM-C must be applied in accordance with the applicable provisions of the National Construction Code.

Ensure product is mixed thoroughly prior to use. Using a brush or roller, apply the first coat of Piraseal SPM-C after the primer has sufficiently dried. Apply an even and consistent coat of approximately 0.75mm wet film thickness.

Once the first coat has dried, apply a second coat of Piraseal SPM-C at right angles to the first coat. Apply an even and consistent coat of approximately 0.75mm wet film thickness.

Piraseal SPM-C must be applied with a minimum of two coats to achieve a dry film thickness of not less than 1.2mm (1200 microns). Test the depth of coats with a wet film thickness gauge at regular intervals during installation.

When treating retaining walls and planter boxes, the area above natural ground level must be treated with Piraseal WBP-UV prior to the installation of the Piraseal SPM-C membrane. Retaining walls and planter box applications will require Piraetec Drainage Cell to be installed to the entire waterproofed area, once the membrane has fully cured if Piraseal Root Inhibitor is not utilized.

Test the depth of coats with a wet film thickness gauge at regular intervals during installation.

LIMITATIONS

Do not apply Piraseal SPM-C:

- Over damp, wet or contaminated substrates
- If it is raining or if rain is imminent
- Directly over any existing coatings
- Directly to particle board flooring (Ceramic tile underlay must be installed)
- As a wearing surface for foot or vehicle traffic
- As an exposed membrane
- In swimming pools, spas, tanks or ponds
- Where the surface temperature is below 10°C or greater than 35°C
- To areas subject to negative hydrostatic pressure or rising damp
- Do not install tiles directly over Piraseal SPM-C, a engineered self supporting screed must be installed.

COVERAGE

- 1.5 litres per M2 at 1.2mm dry film thickness (10M2 per drum).
- The coverage figures are theoretical due to wastage and depending on the porosity and profile of the substrate, coverage figures may be reduced.

PACKAGING

Piraseal SPM-C is supplied in 15 litre pails.

CLEAN-UP

Reusable tools should be cleaned carefully with Xylene Solvent before curing.

SHELF LIFE

Unopened pails can be stored for up to 12 months in a cool, dry and weatherproof environment.

If stored at high temperatures, the shelf life may be reduced.

SAFETY

Please refer to Material Safety Data Sheet (MSDS) for personal protection, proper handling, storage, first aid and spills.

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PIRAETEC
CONSTRUCTION PRODUCTS