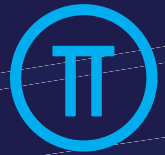


PIRASEAL WTC

ELASTOMERIC, ONE-PART

WATER BASED POLYURETHANE WATERPROOFING MEMBRANE



DESCRIPTION

Piraseal WTC is an elastomeric single part, water based polyurethane membrane which offers a hard wearing and slip resistant finish for external applications. In addition to being a stand-alone waterproofing membrane, it can also be used as a topcoat to increase the slip and wear resistance of the Piraseal WBP-UV and Piraseal CB waterproofing systems in applications subject to residential foot traffic and permanent UV light exposure.

Piraseal WTC bonds exceptionally well to most suitably prepared substrates found in the construction industry, as well as Piraseal WBP-UV and Piraseal CB. It is resistant to fungi and algae growth and has excellent weather resistance.

Piraseal WTC can be used as a stand-alone surface coating on new or existing concrete surfaces to provide a fresh, rejuvenated and slip resistant finish.

FEATURES/BENEFITS

- Class II membrane in accordance with AS 4654.1
- Non shrinking and flexible
- Resistant to fungi and algae growth
- Solvent free, non-hazardous
- Excellent weathering properties
- Excellent adhesion to substrates
- Foot trafficable
- Provides a slip resistant surface, no broadcasting of aggregates required
- Easy to clean and maintain

TYPICAL APPLICATIONS

It is recommended for areas such as roofs, walkways, balconies, rooftop plant rooms and general horizontal surface exposed to weather and foot traffic.

PERFORMANCE DATA AND PHYSICAL PROPERTIES

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

- Allow 4-6 hours between coats.
- Allow 7 days to fully cure.
- Allow longer drying times in cool, damp or higher humidity conditions.

Wet Form

- VOC.....5.0 grams/litre
- Appearance.....Light Grey or Slate Grey
- Specific Gravity.....1.55kg/L

Cured Membrane

- Tensile Strength.....2.2N/mm2
- Accelerated Weathering.....No changes after 500 hours (Xenon Arc method)
- Shore A Hardness.....92
- Slip ResistanceR10

Note: The slip resistance value stated above is based on laboratory samples. The on-site slip resistance is dependent on application methodology and substrate surface profile. In situ confirmation of slip resistance is advised.

SUBSTRATES

Piraseal WTC is suitable for application onto masonry or concrete substrates, as well as Piraseal WBP-UV and Piraseal CB waterproofing membrane systems.

Always contact the manufacturer if there is any doubt about the suitability of the substrate.

PREPARATION

All surfaces to be coated 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.

New concrete must be cured for a minimum of 28 days. Render and cement screeds must be cured for a minimum of 7 days.

Piraseal WTC requires a fillet (bond breaker) using Piraseal HS or Piraseal MS sealant at all horizontal and vertical transitions. For optimal performance, incorporate Piraseal Elastoband or Piraseal Butyl Tape at all transitions.

STATIC CRACK TREATMENT

For cracks less than 1mm, clean cracks thoroughly before filling with Piraseal HS or Piraseal MS. Piraseal WTC cannot span gaps. For dynamic cracks/expansion joints and control joints, the use of Piraseal Elastoband or Piraseal Butyl Tape systems is recommended. Contact the Piraseal 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. Nonporous substrates, such as metals or PVC must be primed with Piraseal Primer NP.

Apply the primer to the prepared substrate by using a brush or roller in accordance with the relevant product's Technical Data Sheet. Allow the primer to fully dry prior to commencing the application of Piraseal WTC.

When being applied directly onto Piraseal WBP-UV and Piraseal CB waterproofing membrane systems, priming is not required. Ensure Piraseal WBP-UV and Piraseal CB has been applied in accordance with the application instructions, has fully cured and any surface contamination has been removed.

APPLICATION

Piraseal WTC must be applied in accordance with the applicable provisions of the National Construction Code. Prior to application, stir the contents thoroughly.

Standalone Membrane:

- Using a brush, roller or squeegee, apply the first coat of Piraseal WTC after the primer has sufficiently dried. Apply an even and consistent coat of approximately 0.60mm wet film thickness.
- Once the first coat has dried, apply a second coat of Piraseal WTC at right angles to the first coat. Apply an even and consistent coat of approximately 0.60mm wet film thickness.
- Piraseal WTC must be applied with a minimum of two coats to achieve a dry film thickness of not less than 1.0mm (1000 microns). Test the depth of coats with a wet film thickness gauge at regular intervals during installation.

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Top Coat:

- Using a brush, roller or squeegee, apply the first coat of Piraseal WTC. Apply an even and consistent coat of approximately 0.30mm wet film thickness.
- Once the first coat has dried, apply a second coat of Piraseal WTC at right angles to the first coat. Apply an even and consistent coat of approximately 0.30mm wet film thickness. Piraseal WTC must be applied with a minimum of two coats to achieve a dry film thickness of not less than 0.50mm (500 microns). Test the depth of coats with a wet film thickness gauge at regular intervals during installation.

Note: Avoid contact with skin and eyes. Wear splash proof goggles and rubber or PVC gloves at all times.

LIMITATIONS

Do not apply Piraseal WTC:

- Over damp, wet or contaminated substrates
- If it is raining or if rain is imminent
- Directly over any existing coatings other than Piraseal WBP-UV and Piraseal CB
- As a high wear surface for vehicle traffic
- Where ambient or surface temperatures are below 5°C or greater than 35°C
- To areas subject to negative hydrostatic pressure or rising damp
- To areas of continuous immersion such as swimming pools, ponds, water features or water tanks

COVERAGE

Standalone Membrane - 1.2 litres per M2 at 1.0mm dry film thickness (12.5M2 per drum)

Top Coat - 0.6 litres per M2 at 0.5mm dry film thickness (25M2 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 WTC is supplied in 15 litre pails.

CLEAN-UP

Tools and minor spills can be cleaned with water while product is still wet. Cured Piraseal WTC can be cleaned with an alcohol based solvent or by mechanical means.

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 and storage.

The technical information and application advice given in this Technical Data Sheet is based on the present state of Piraetec Pty Ltd's best scientific and practical knowledge and is intended to give a fair description of the product and its capabilities. As the information contained herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness, either expressed or implied, is given other than those required by law. In practice, the substrate and environmental conditions vary widely, making it essential for the user to determine the product's suitability for a particular application and that the product is not used beyond its physical limitations. The user is responsible for checking the suitability of products for their intended use.

Field service where provided does not constitute supervisory responsibility. Suggestions made by Piraetec either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Piraetec, are responsible for carrying out procedures appropriate to a specific application.

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