



THERMOFLEX DUAL

Waterproofingsystem

Discussion

THERMOFLEX DUAL is a polymer-modified waterproofing membrane obtained from the modification of **THERMOFLEX DUAL** distilled bitumen with poly-olefin based co-polymers. The modified compound makes **THERMOFLEX DUAL** an easy to apply membrane that requires low consumption of gas and has excellent adhesion properties that ensure, when the membrane is properly installed, very good bonding and tightness of all joints and overlaps.

There are two reinforcements: a central non-woven polyester carrier (120g/m²) combined to a glass fibre carrier (50g/m²) which is positioned at the very top surface of the membrane. The combination of the two carriers results in excellent mechanical properties, unmatched dimensional stability and a unique resistance to weathering agents, with no signs of 'alligating' in time on the membrane surface.

THERMOFLEX DUAL is available with a talc finish on the upper face to prevent the roll from sticking to itself and benefits the unrolling of the product during installation. The talc finish also enhances the adhesion of aluminium reflective coatings and acrylic paints after application. The lower face of **THERMOFLEX DUAL** is backed by a special polyethylene burn-off film which melts during torching and prevents the roll from sticking to itself. The correct application temperature is visible from the embossed surface of the membrane which is below the burn off film, when the correct application temperature is reached, this embossment melts, also helping vapour diffusion and avoiding blistering.

The burn off film also has a printed 10cm square which allows the alignment of the side laps quickly and easily during application.

THERMOFLEX DUAL offers a high static and dynamic puncture resistant, good tensile strength, both longitudinal and transversal, ultimate elongation and exceptional dimensional stability.



Physical Properties

Colour:	Black
Pack Size:	4mm grade in 10m roll lengths and 1m wide
Total Solids:	100%
Specific Gravity:	1.3 – 1.4
Bitumen modification:	APP
Water Vapour:	Permeability Impermeable
Chemical Resistance:	Resistant to mild acids and alkali solutions. Not resistant to hydro-carbon solvents, diesel
Penetration (100g/5s/70c):	50-60
Flow resistance at elevated temperature	Will not slump on a vertical surface at 120°C
Cold Flexibility (20mm mandrel)	< 5°C
Elongation @ 25°C	>45%
Tensile Strength L/T	>750 N/5cm
Tear Resistance L/T	>250 N

Maintenance

A maintenance re-coat of **REFLECT** is required every 2-3 years.

Health and Safety

- Avoid contact with skin or eyes.
- Keep out of reach of children.
- If accidentally swallowed, seek medical advice immediately.
- To avoid the risk of spillage, always store and transport containers in a secure upright position.
- Refer to Material Safety Data Sheet for additional information.



Standard Disclaimer

The recommendations contained herein are given in good faith and meant to guide the specifier or user in accordance with good painting practices. They are gained from our tests and experiences and are believed to be accurate and reliable. No warranty/guarantee is implied by the recommendations contained herein since the conditions of use; application method, substrate and cleanliness of the substrate are beyond **STT Sales (PTY) LTD** control.

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements.

Important Note; It is the responsibility of the user to ensure that the latest **TDS** is being used for reference. **DARACHEM** Data Sheets are available on our website www.darachem.co.za or Email info@darachem.co.za.

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