industries technical waterproofing solutions

ck 86/23380/23. darachem house, 6 mission road, anderbolt, boksburg north. p.o. box 6008 dunswart 1508. tel: (011) 892 2917/8/9, fax: (011) 892 1519. email: info@darachem.co.za

THERMOFLEX COMPOSITE

Waterproofingsystem

Discussion

THERMOFLEX COMPOSITE is a polymer-modified waterproofing membrane obtained from the modification of distilled bitumen with poly-olefin based co-polymers. The modified compound makes **THERMOFLEX COMPOSITE** 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.

The carrier is a composite polyester stabilised with longitudinal glass yarns that provide very good dimensional stability and prevent problems of shrinkage caused by weathering in time.

Physical Properties

Colour: Black

Pack Size: 3mm and 4mm grades in 10m roll lengths

and 1m wide

Total Solids: 100%

Specific Gravity: 1.3 – 1.4

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 Will not slump on a vertical surface at

temperature 120°C

Cold Flexibility (20mm mandrel) < 0°C

Elongation @ 25°C >35%

Tensile Strength L/T >400/300 N/5cm

Tear Resistance L/T >300/400 N

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Construction

The membrane consists of a 10 micron LDPE plastic to prevent sticking of the adhesive layer to the modified bitumen. A stabilized 120 gm composite. A weathering layer of modified bitumen coated with silica to prevent sticking and supply a surface key for decorative finishing coatings.

Application

Concrete Roof Decks
Planters and Flower Boxes
Under Screed or Tiles
Water Retaining Structures
Vehicular Traffic Areas
See application sheet 1
See application sheet 2
See application sheet 4
See application sheet 5

Thermoflex AP is a torch on APP modified bitumen available in 3mm at 4.0 kg/m sq. and 4mm at 4.8 kg/m sq. grades in 10m roll lengths 1m wide. **THERMOFLEX COMPOSITE** is recommended as a base sheet or intermediate layer in multi-layer waterproofing constructions for flat, pitched or vaulted roofs, made of reinforced concrete cast on site or prefab, of terraces, under-floorings etc. In case of direct exposure to weathering agents, **THERMOFLEX COMPOSITE** shall be protected with **REFLECT** paint or by a layer of self-protected mineralised) membrane.

Subject to the type of substrate it shall be installed by means of a LPG gas torch.

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 accidently 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.

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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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