



TESONSHIELD HR 1-P POLYMER-MODIFIED WATERPROOFING & HEAT REFLECTIVE MEMBRANE (TW-111-HR)

DESCRIPTION: TESONSHIELD HR is ready to use as coating, designed with the main function to reflect heat from sunlight for vertical and horizontal application. TESONSHIELD HR is suitable for exposed metal roof of factories, concrete rooftop and building facades.

APPLICATIONS:

- Vertical & horizontal
- Cement render
- Concrete
- Masonry wall
- Fibre cement
- Galvanized iron roof
- Steel surface (pre-primer)

ADVANTAGES:

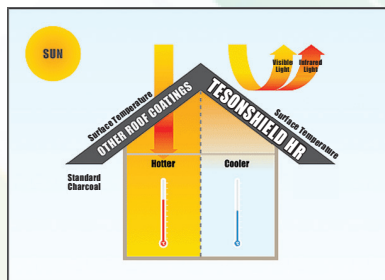
- Reflects heat from sunlight effectively
- Reduce substrates temperature by maximum 10°C (when exposed to sunlight)
- Excellent adhesion
- UV, weather resistance
- Waterproof (water ponding passed)



APPLICATION REFERENCES:



Metal Roof Application



Performance Illustration



Roller Application

PRODUCT RANGE:

| PRODUCT CODE | PACKING SIZE | PACKING FORM | COLOUR |
|------------------|--------------|--------------|--------|
| TW-111HR/WH/800G | 800gm | Can | White |
| TW-111HR/WH/4.5K | 4.5kg | Pail | White |
| TW-111HR/WH/17K | 17kg | Pail | White |



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APPLICATION PROCEDURES:

- Substrates need to be sound, clean and free of dust, oil or other contamination prior to priming.
- Priming with TESONSHIELD HR mix one to one with water is recommended.
- Rusted metal surface should be mechanically cleaned to the bare metal surface and properly protected with a good quality anti-rust primer prior to apply TESONSHIELD HR.
- TESONSHIELD HR may be applied by brush, roller, airless spray at temperature between 10°C to 30°C.
- To obtain effective function of TESONSHIELD HR, two coats are applied in a recommended coverage of 1kg/sq-m and with a coating interval of one hour after the first coat is touch dry.
- Reinforcement is recommended when there is joint movement at joint area when first coat remain wet.

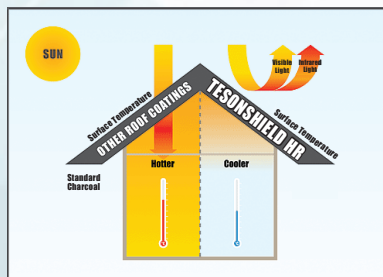
STORAGE/PACKAGING:

- Do not store TESONSHIELD HR directly under sunlight and also where it is likely to freeze.
- 12 months under unopened and proper storage condition.

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CURING AND SETTING TIME:

- After application of 1st coat TESONSHIELD HR, the drying time is approximate one hour but allow to self-cure for another 2 to 3 hours before applying the 2nd coat.
- The drying time largely depends on the surface of substrates and relative humidity of the surrounding areas which sometimes required the membrane to cure longer.

WATER PONDING:

- Water ponding shall be carried out 72 hours later after application of the membrane. Water ponding shall be conducted for not more than 48 hours.

COVERAGE:

- Approximately 1 to 2kg/sq-m for two coats depending on the porosity and surface of the substrate.

PROPERTIES:

Tensile Strength : 0.6-1.0N/mm²
 Elongation : >400%
 Density : 1.0-1.2
 Water Absorption : Good and Non Drip

NOTE:

Care shall be taken during screeding to avoid puncturing the waterproofing membrane. Otherwise, lay a protective screed. If any puncturing occurs, inform the users concerned to carry out the necessary repairs.

PRECAUTION:

Health & Safety

TESONSHIELD HR is safe to use as it is non-flammable and non-toxic. However, it is still advisable to follow good working practice and use only in well-ventilated areas.

LIMITED WARRANTY:

Sellers and manufacturers only obligation shall be replacement of such quantity of product proved to be defective. All advices given herewith is to be best of knowledge, true and accurate. All recommendations or suggestions are made without guarantee. Since the conditions of use are beyond our control, the seller or manufacturer shall not be liable for any injuries, loss or damage, direct or consequential arising from the use of or the failure of the product. Before using, user shall determine the suitability of the product for his intended use and user assumes all risk and liability.