



# TESONSHIELD AR 1-P POLYMER-MODIFIED WATERPROOFING & ANTI RUSTING MEMBRANE (TW-111-AR)

**DESCRIPTION:** TESONSHIELD AR is a one component, ready to use, non-toxic, water-based polymerized product, designed to perform as an elastomeric liquid applied waterproofing membrane. It can apply by brush, roller or spray and capable to form seamless membrane with excellent water resistance and minimum wastage. The average coverage will be 1 to 2 kg/m<sup>2</sup>, requires minimum 2 to 3 coats subject to application.

## APPLICATIONS:

- Metal Roof
- RC Roof
- Roof Garden, Terrace
- Toilet, Kitchen
- Balcony, Planter Box
- Retaining Wall
- Swimming Pool

## ADVANTAGES:

- Anti-Rusting
- Flexible/Elongate
- Water-Based
- Non-Toxic
- Low Odour
- Easy Application
- Non-Hazardous
- Seamless



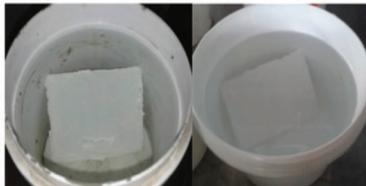
## PERFORMANCE OF TW-111-AR



Appearance

Excellent Elongation

## ANTI RUSTING-WATER IMMERSION



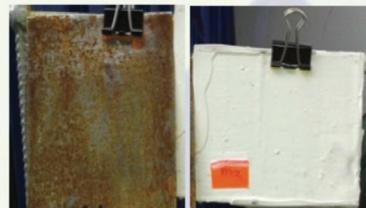
No Rusting/7 Days

## ANTI RUSTING-GALVANIZED SHEET



No Rusting/7 Days

## ANTI RUSTING-MILD STEEL

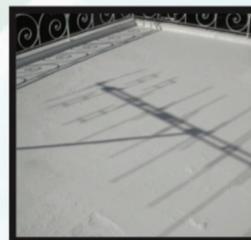


No Rusting/7 Days

## APPLICATION REFERENCE:



Roller Application



Roof Top Application

## PRODUCT RANGE:

PRODUCT CODE	PACKING SIZE	PACKING FORM	COLOUR
TW-111AR/WH/20K	20kg	Pail	White
TW-111AR/GR/20K	20kg	Pail	Grey
TW-111AR/WH/5K	5kg	Pail	White
TW-111AR/GR/5K	5kg	Pail	Grey
TW-111AR/WH/1.4K	1.4kg	Can	White
TW-111AR/GR/1.4K	1.4kg	Can	Grey



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**ADVANTAGES:**

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- Flexible/Elongate.
- Water-Based.
- Non-Toxic.
- Low Odour.
- Easy application.
- Non-Hazardous.
- Seamless.

**APPLICATIONS:**

- Metal Roof
- RC Roof
- Roof Garden, Terrace
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- Swimming Pool

**SURFACE PREPARATION:**

- Substrate surface shall be clean, free of dust, oil, grease, laitance or any other deleterious substrates.
- Concrete slab shall be trowelled smooth to receive TESONSHIELD AR waterproofing membrane.
- Masonry upturn walls shall be trowelled or plastered reasonably smooth to avoid pin-holes.
- Exposed bricks, honeycombing and depressions in existing surfaces shall be made good.
- Angle fillets shall be laid between floor and wall around the perimeter, using cement mixed with TESONLATEX.

**APPLICATION PROCEDURES:**

- Straight from container with brush, spray or roller.
- Apply 1<sup>st</sup> coat TESONSHIELD AR over the upturn of 300mm or 1800mm on the entire wall and then the entire floor area with a wet film of 0.5 to 1.0mm thick. Embed a layer of woven fabric.
- After surface dries, apply 2<sup>nd</sup> coat with the same thickness (total thickness 1.0 to 1.5mm). The thickness varied depending on the surface of substrate but it shall not exceed 1mm, otherwise curing time will take longer.
- Primer is optional, depending on the surface and porosity of the substrate.
- Primer after dilutes TESONSHIELD AR will provide estimate coverage of 0.2kg/m<sup>2</sup>.

**STORAGE/PACKAGING:**

- Do not store TESONSHIELD AR directly under sunlight and also where it is likely to freeze.
- Not advisable to store for more than 1 year.

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**LIMITED WARRANTY:**

Sellers and manufactures 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.

**CURING AND SETTING TIME:**

- After application of 1<sup>st</sup> coat TESONSHIELD AR, the drying time is approximate one hour but allow to self-cure for another 2 to 3 hours before applying the 2<sup>nd</sup> 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:**

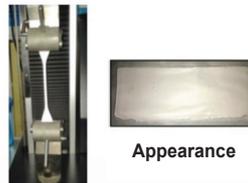
- Approximately 1 to 2kg/m<sup>2</sup> for two coats depending on the porosity and surface of the substrate.

**PROPERTIES:**

- Tensile Strength : 1.5N/mm<sup>2</sup>
- Elongation : 450-500%
- Density : 1.3-1.4
- Water Absorption : Good and Non Drip

**PERFORMANCE REFERENCE:**

**PERFORMANCE OF TW-111-AR**



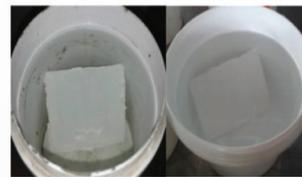
Excellent Elongation

**ANTI RUSTING-GALVANIZED SHEET**



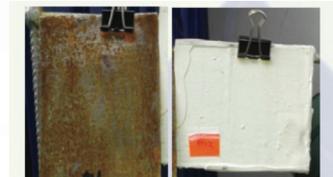
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**ANTI RUSTING-WATER IMMERSION**



No Rusting/7 Days

**ANTI RUSTING-MILD STEEL**



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