



# TECHNICAL DATA SHEET

## PRO SHIELD-AR 1-P POLYMER-MODIFIED WATERPROOFING & ANTI RUSTING MEMBRANE

### PRODUCT

**PRO SHIELD-AR 1-P POLYMER-MODIFIED WATERPROOFING & ANTI RUSTING MEMBRANE**

### DESCRIPTION

**PRO SHIELD-AR** is a component, ready to use, non-toxic, water based polymerized product, design to perform 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.

### Advantages

- ✚ Anti-rusting
- ✚ Environmental friendly
- ✚ Non-toxic & non-flammable (solvent free)
- ✚ No mixing, ready-to-use straight from container
- ✚ Faster setting and curing time
- ✚ Good adhesion to many substrates.

### APPLICATION

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

### SURFACE PREPERATION

- ✚ Substrate surface shall be clean, free of dust, oil, grease, laitance, or any other deleterious substrates.
- ✚ Concrete slab shall be trowelled smooth to receive PRO SHIELD-AR waterproofing membrane.
- ✚ Masonry upturn walls shall be trowelled/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 & wall around the perimeter, using cement mixed with PROBUILDERS LATEX.

### APPLICATION PROCEDURES

- ✚ Straight from container with brush, spray or roller.
- ✚ Apply 1<sup>st</sup> coat PRO SHIELD-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 varies 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 diluters PRO SHIELD-AR will provide estimate coverage of 0.2kg/m<sup>2</sup>.

### STORAGE AND PACKAGING

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

PRODUCT CODE	PACKING SIZE	PACKING SIZE	COLOUR
PW-111-AR/WH/20KG	20KG	PAIL	WHITE
PW-111-AR/EH/5KG	5KG	PAIL	WHITE
PW-111-AR/WH/1.4KG	1.4KG	CAN	WHITE

PW-111-AR/GR/20KG	20KG	PAIL	GREY
PW-111-AR/GR/5KG	5KG	PAIL	GREY
PW-111-AR/GR/1.4KG	1.4KG	CAN	GREY

### CURING AND SETTING TIME

- ✚ After application of 1<sup>st</sup> coat PROSHIELD-AR, the drying time is approximately one hour but allow to self-cure for another 2 to 3 hours before applying the second coat.
- ✚ The drying time largely depends on the surface of substrates and relative humidity of the surrounding areas which sometimes require 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 2 kg/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 & Non Drip

### NOTE

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

### COLOUR

White & grey colours available. Other colours shall be made subject to minimum order quantity.

### PRECAUTION

#### Health and Safety

PRO SHIELD-AR 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 area.

Keep out of reach of children.

### LIMITED WARRANTY

Sellers and manufacturers only obligation shall be replacement of such quality of product proved defective. All advice given herewith is to the best of knowledge, true and accurate. All recommendations or suggestion 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 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.