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# WPM 1000 X

## Waterproofing and Decoupling Membrane

POLYETHYLENE WATERPROOF AND DECOUPLING MEMBRANE SANDWICHED BETWEEN TWO LAYERS OF POLYPROPYLENE NON-WOVEN MEMBRANES

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### Features

Waterproof

Crack bridging

Constant thickness

Ease and speed of installation

Fast track continuation of subsequent work / waterproofing in just 2 days

Quick and hassle free installation

The decoupling function minimizes tension between the substrates and the floor to be installed, is crack bridging and allows a safe installation onto critical substrates

For renovation and new construction, domestic and commercial areas with loads up to 2 kN/m<sup>2</sup>. Also in domestic areas for unbonded installation

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Indian Green Building Council  
**M E M B E R**

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# WPM 1000 X

## Waterproofing and Decoupling Membrane

POLYETHYLENE WATERPROOF AND DECOUPLING MEMBRANE SANDWICHED BETWEEN TWO LAYERS OF POLYPROPYLENE NON-WOVEN MEMBRANES

### DESCRIPTION

Polyethylene waterproof and decoupling membrane sandwiched between two layers of polypropylene non-woven membranes.

### APPLICATION AREAS

Internal - Walls and Floors

Toilets, balconies, utility areas, swimming pools etc.

**NOTE:** Officially approved for installation in all type of operational demands as specified in A, B and C

- A : Floors and walls with little direct exposure to water (sufficient distances to showers and bathtubs)
- B : Floors and walls with a few, daily showers being taken (residential apartments, Hotels)
- C : Floors and walls with heavier and more often impacts of water (public wet rooms, schools, sport facilities)

### SURFACE CONSIDERATION

For NEW CONCRETE / BRICK / BLOCK WALL New cement / sand rendering / existing concrete bases and other surface please refer to the ARDEX ENDURA Technical Data sheet of Adhesives. Eg. GOLD STAR, DIAMOND STAR & PLATINUM STAR.

### SURFACE PREPARATION

The surface to be treated must be structurally sound, clean, dry, and free of laitance, oil, grease or any substance that may impair adhesion.

### MIXING

Add ARDEX ENDURA GOLD STAR to clean water and mix thoroughly until a slump free mortar is obtained. A 20 kg bag will require approximately 6 litres of water. The adhesive is immediately ready for use and has a pot life of 3 hours.

### APPLICATION

Application of WPM 1000 X with ARDEX ENDURA GOLD STAR/DIAMOND STAR / PLATINUM STAR ADHESIVE

1. Spread to the required areas in which the WPM 1000 X can be applied over it at a time before the adhesive start its initial set; apply the adhesive to the wall or floor surface.
2. Comb the adhesive to the required depth (between 3 - 6mm) using suitable trowel.
3. Fix WPM 1000 X onto the adhesives neatly without any wrinkles and air pockets in it. The adjacent sheet shall be fixed providing a butt lap joint (By use of a straight edge trowel).
4. All the butt joints and the corner junctions shall be sealed with ARDEX ENDURA WPM DECKWEB sandwiched between WPM 1000 X.
5. All the pipe penetrations where vibration and movement is expected shall be sealed using ARDEX ENDURA SU 10.

6. Using necessary ARDEX ENDURA adhesives as per the architect's specifications and always follow the technical data sheet of the manufacturer.

### NOTE:

- Do not use for waterproofing on negative side.
- Do not use for waterproofing in steam baths / sauna etc.

### INSTALLATION

Embedding with ARDEX ENDURA Adhesives GOLD STAR, WHITE STAR, DIAMOND STAR / PLATINUM STAR 3 or 4mm bed thickness

#### a) Joint Treatment / Butt Joints

The membrane is installed as shown below;



Installation of WPM 1000 X with ARDEX ENDURA GOLD STAR / WHITE STAR / DIAMOND STAR / PLATINUM STAR



Butt joint treatment with ARDEX ENDURA WPM DECKWEB sandwiched between 2 coats of ARDEX ENDURA WPM 002 No overlap

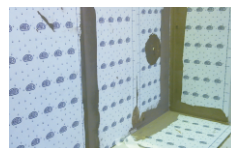


#### b) CORNERS TREATMENT

All the corners are to be treated as follows;



ARDEX ENDURA WPM DECKWEB sandwiched between ARDEX ENDURA WPM 002 in corners



#### c) PIPES & FITTINGS TREATMENT

All pipes & fittings needs to be treated with drain and pipe collars as shown below;



ARDEX ENDURA WPM DECKWEB sandwiched between ARDEX ENDURA WPM 002

around the pipes and fittings.

**NOTE:** Metal pipes and fittings must be treated with suitable metal primer

### PROPERTIES

The values shown are typical of results obtained in the laboratory at 27 ± 1°C. Actual performance values obtained on site may vary from those quoted.

### TECHNICAL DATA

WPM 1000 X	@ 27 ± 1°C
Total Width	1000 mm
Total thickness	approx. 0.4 mm
Total Width	1000 mm
Material weight	approx. 170g/m <sup>2</sup>
Resistance to temperature	min. - 5°C max. + 90°C
Length per roll	50 metres

### PHYSICAL PROPERTIES

Burst pressure max Internal	2.5 bar
Breaking load longitudinal / lateral DIN 527-3	70 N/>15 mm
Extension break longitudinal / lateral DIN 527-3	≥70 %
Power absorption at 25% Elasticity lateral DIN 527-3	1.8 N/mm
Power absorption at 50% Elasticity lateral DIN 527-3	2.2 N/mm
Resistance to water pressure DIN EN 1928 (Version B)	> 1.5 bar
UV-Resistance: min. DIN EN ISO 4892-2	500 h

Moisture vapour resistance air equivalent (sd) DIN EN 1931 > 30 m

Bonding strength DIN EN 1348 > 0.2 N / mm<sup>2</sup>

Fire classification DIN EN 4102 B 2

#### CHEMICAL PROPERTIES

Resistance after storage Over 7 days at room temperature in following chemicals.

Hydrochloric acid 3%	Internal	+
Sulphuric acid 35%	Internal	+
Citric acid 100g/l	Internal	+
Lactic acid 5%	Internal	+
Potassium hydroxide 3% / 20%	Internal	+ / +
Sodium hyperchlorite 0, 3g/l	Internal	+
Salt water (20g/l sea water salt)	Internal	+

Resistant	+
Weakened	0
Non Resistant	-

#### STORAGE AND SHELF LIFE

WPM 1000 X has a shelf life of 12 months if kept in dry condition. The product should be protected from frost, away from direct sunlight and sources of heat.

#### PRECAUTIONS

Keep out of reach of children, Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice.

#### DISPOSAL/SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

For further information please refer to the Product Safety Data Sheet.

#### CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

#### NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.