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# ARDEX WPM 330

## (Sheltercoat Façade Membrane)

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External anti-carbonation façade membrane

Semi-permeable membrane – allows wall surface to breathe

Contains fungi and algae growth inhibitors

Provides excellent UV resistance and long term protection from elements

Water based, safe to use, low odour and easy cleaning

Decorative – choice of colours

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# ARDEX WPM 330

## (Sheltercoat Façade Membrane)

### External Anti-Carbonation Façade Membrane

#### PRODUCT DESCRIPTION

ARDEX WPM 330 is an extremely weather resistant water based acrylic waterproofing membrane. Specially designed as an exposed facade membrane, ARDEX WPM 330 prevents moisture, chloride ion and carbon dioxide entering and damaging the building structure while still allowing the substrate to breathe.

ARDEX WPM 330 is also highly resistant to dirt retention, as well as containing fungi and algae growth inhibitors. The product's flexibility and high build qualities allow it to be applied over hairline cracks.

ARDEX WPM 330 is water based, low in odour and is available in a range of decorative colours.

#### FEATURES/BENEFITS

- Highly flexible and durable.
- Self cleaning, low dirt retention.
- Resists fungi and algae growth.
- Large range of durable colours.
- Vapour permeable (allows facade substrate to breath).
- Prevents chloride ion, sulfide ion, and carbon dioxide attack.

#### ACCEPTABLE SUBSTRATES

After appropriate surface preparation:

- Rendered walls.
- Brick/masonry walls.
- Fibre cement sheets.
- Tilt up and pre-cast concrete.
- Light weight aerated concrete blocks (eg CSR Hebel).

#### TYPICAL APPLICATIONS

- Building facades and external walls.
- Roof parapets.
- Silos, lighthouses and other external structures.

Particularly important in coastal areas, high traffic density areas for application over concrete and brick surfaces.

#### LIMITATIONS

Product should not be used in trafficable areas. Other ARDEX products are more suitable for this application. Do not apply ARDEX WPM 330 if the surface temperature is below 10°C or above 35°C. Do not apply if rain is imminent.

#### BASIC APPLICATION INSTRUCTIONS

##### Surface preparation

The surface to be coated should be clean, sound, and free from oil, grease, form release agents or bondbreakers and other contaminants. All areas of loose or flaking paint must be removed to a firmly bonded substrate. Concrete surface pores must be open to enable good adhesion.

##### Cracks and voids

ARDEX WPM 330 can be applied directly over hairline cracks. All other cracks should be treated with a neutral cure silicone. Other deep surface imperfections should be repaired using ARDEX concrete repair mortars such as ARDEX B 34 and ARDEX B 36 and allowed to cure for 7 days before applying the membrane. Refer to ARDEX for advice regarding areas of concrete spalling. Irregular surfaces resulting from peeled paint should be smoothed using Adrex concrete repair systems.

##### Priming

All prepared surfaces should be primed with one coat of ARDEX WPM 270 Solvent Based Primer at a rate of 6m<sup>2</sup> per litre. AAC (Hebel) or other highly porous surfaces may require two coats. Allow primer to be dry before applying the membrane (approx. 30 minutes).

##### Application of ARDEX WPM 330

Apply with nap roller, textured roller or paint brush. Ensure that the coating is applied evenly at the recommended coverage rates.

Apply the first coat of WPM 330 at a rate of 1 litre per 2.8m<sup>2</sup> to achieve a wet film thickness of 0.35mm, and allow it to dry.

Apply the second coat at approximately the same rate to achieve a final dry film thickness of around 0.35mm.

##### Surface finish

The surface finish achieved can be varied by selection of method of application. Prior to the commencement of any project it is recommended that a sample of the finish be prepared for approval and that finish shall act as the standard.

| Surface finish profile | Roller type          |                      |
|------------------------|----------------------|----------------------|
|                        | 1 <sup>st</sup> coat | 2 <sup>nd</sup> coat |
| High Texture           | Med. Texture         | Med. Texture         |
| Medium Texture         | Nap                  | Med. Texture         |
| Low Texture            | Med. Texture         | Nap                  |
| Ripple Texture         | Nap                  | Nap                  |

The length of the roller nap will vary the profile of the texture although the nap length must suit the substrate. A 12–15mm nap produces a low surface profile while a 15–24mm nap produces a higher surface profile.

## COVERAGE

Coverage: 1 x 15 litre unit of ARDEX WPM 330 will cover approximately 20m<sup>2</sup> (at a dry film thickness, after two coats, of 0.35mm).

## SAFETY PRECAUTIONS

ARDEX WPM 330 is non-hazardous; non-dangerous goods. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin. If contact with eyes, rinse thoroughly with water.

## STORAGE

The shelf life of ARDEX WPM 330 is 12 months in the original unopened packaging when stored in a cool, dry and well ventilated area. Keep containers securely sealed. DO NOT allow to freeze. Do not store in direct sunlight. Replace lid tightly after use. Product should be used within 6 months of the container being opened.

ADDITIONAL INFORMATION IS LISTED IN THE MATERIAL SAFETY DATA SHEET.

## CLEAN UP AND DISPOSAL

Clean all equipment with water prior to the product drying. Dispose of containers in compliance with all relevant local authorities, state and federal laws and regulations.

## TECHNICAL PERFORMANCE DATA

**Colour** Available in selected colour range

**Specific gravity** 1.3kg/L

**Application temperature** 10°C – 35°C

**Drying time: (25°C / 50% RH)**

**Surface dry** 2 hours

**Recoat** 4 hours

**Hard dry** 7 days

Lower temperature and higher humidity will prolong drying.

**Carbon dioxide diffusion rate/sulfur dioxide Kopfler criterion**

**(min reqd. R> 50 m)** 124 m

**Water vapour transmission**

**(ASTM E96-94)** 39.8 g/m<sup>2</sup>/24 hrs

**Kopfler criterion**

**(max reqd Sd< 4m)** 1.1 m

**Chloride ion diffusion rate**

**(as per TEL procedures)** 7.7 x 10<sup>-14</sup> m<sup>2</sup>/sec

**VOC content** 61g/L

## DISCLAIMER

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Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may effect specific installation recommendations.

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### **ARDEX Australia Pty Ltd**

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