ARDEX WPM 335

External Anti-Carbonation Facade Membrane

Semi-permeable membrane – allows wall surface to breathe

Prevents moisture, salt , chloride and carbon dioxide attack

Contains fungi and algae growth inhibitors

Provides excellent UV resistance and long term protection from elements

Low VOC content

Decorative – choice of colours

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DESCRIPTION

ARDEX WPM 335 is an extremely weather resistant water based acrylic waterproofing membrane. Specially designed as an exposed facade membrane, ARDEX WPM 335 prevents moisture, salt and carbon dioxide entering and
damaging the building structure while still allowing the substrate to breathe.

ARDEX WPM 335 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 335 is water based, low in odour and is available in a range of decorative colours.

ARDEX WPM 335 can also be used externally as it is formulated to resist UV conditions.

FEATURES/BENEFITS

- Highly flexible & durable
- Low dirt retention
- Resists fungi & algae growth
- Large range of durable colours
- Vapour permeable (allows facade substrate to breathe)
- Prevents chloride 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, primed surfaces only
- Metal

TYPICAL APPLICATIONS

- Building facades & external walls
- Roof parapets
- Silos, lighthouses & 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.
- Do not apply ARDEX WPM 335 if the surface temperature is below 10°C or above 35°C.
- Do not apply if rain is imminent.

SURFACE PREPARATION

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

Concrete

New concrete should be at least 28 days old or seal with one coat of ARDEX WPM 300 at 3m^2 per litre and left to cure overnight. Old concrete that are damp or wet, will required at least 24 hours of thorough drying.

Renders & Screeds

New renders & screed should be cure for at least 7 days or seal with one coat of ARDEX WPM 300 at 3m^2 per litre and left to cure overnight. Old wet renders & screed should be thoroughly dry for at least 24 hours.

Brick/Masonry walls

All voids must be filled, sharp edges and protrusions should be removed to give flush finish.

Fibre cement sheet

Surface is clean and dry, ready for receiving priming.

Metal

Primed with ARDEX WPM 278 if the surface has signs of scaling and rust, however it is essential to remove as much as possible any scaling before priming.

Cracks and voids

ARDEX WPM 335 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 mortar and allowed to cure for 7

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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 ARDEX concrete repair system.

PRIMING

All prepared surfaces should be primed with one coat of ARDEX WPM 265 Sheltercoat Water Based Primer at a rate of approximately 6m^2 per litre per coat. More than one coat may be required depending upon porosity of the substrate. Allow primer to be dry before applying the membrane. (min. one hour).

APPLICATION

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

For ARDEX WPM 335 anti-carbonation protection system is 4 coats system, consisting of primer and 3 coats of ARDEX WPM 335. Recommended thickness is 0.8 to 1.0 mm DFT.

For ARDEX WPM 335 flat-roof waterproofing applications should not fall below the minimum thickness of 0.6 mm DFT for 3 coats system consisting of primer and 2 coats of ARDEX WPM 335.

Allow each coat of ARDEX 335 to dry completely (approx. 4 hours) before applying second, third or fourth coat.

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	
	1st coat	2nd 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.

PACKAGING

18 L plastic pail.

COVERAGE

Consumption of ARDEX WPM 335 is approximately 2.5 to 4m^2 per liter per coat. The coverage of one 18L unit of ARDEX WPM 335 will cover up to approximately 36m^2 for two coats at a dry film thickness (DFT) of 0.50mm.

COLOURS

Standard colours are grey and white. For any special colours, please refer to colour chart, minimum quantity of 48 pails apply.

TECHNICAL DATA

Colour:	Available in selected architectural colours range
Form:	Soft thixotropic liquid
Specific gravity:	1.30g/cm^3
Percent Solids	65% - 67%
Application Temperature	10°C to 35°C
Service Temperature	-10°C to 70°C
Drying time: (25°C/75% RH)	
Surface Dry	1 hour @ 200 microns WFT, 27°C
Recoat	3 - 4 hours
Hard Dry	3 days
Lower temperature and higher humidity will prolong drying	

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Carbon Dioxide diffusion resistance Kopfler criterion (min reqd. R> 50m)	124m
Water vapour transmission (ASTM 1653)	50g/m^2/24 hrs
Kopfler criterion (max reqd Sd< 4m)	1.1m
Chloride ion diffusion resistance (as per TEL procedures)	7.7 x 10-14 m^3/sec
Adhesion to substrate	≥ 1.3 N/mm^2
Crack Bridging Ability (@ ave 400u DFT, ASTMC836:95 adapted)	Able to bridge cracks > 3.0mm No cracks were observed
Tensile Strength, average (ASTM D412:92)	> 1800 KPa at break
Elongation at break (ASTM D412:92)	> 280%
Accelerated Weathering (ASTM D822.A)	No defects after 1000 hrs
Algal Resistance (SS345: 1990)	Pass – No algae growth
Alkali Resistance, 0.1M NaOH, 1 hr (SS345: 1990)	Pass – No blistering, wrinkling or lifting
Wet Scrub Resistance (ASTM D2486)	No film wear-off after > 15,000 cycles
Dirt Pick-up Resistance 3 months natural weathering (SS500: 2002)	Dc1 = 95 > 92 (Before washing) Dc2 = 96 > 95 (After washing)
Water Spotting (SS500: 2002)	Nil, vertical faces (< 10% of tested area)
Fire Rating (BS476 Pt 1 to Pt 3)	Class 1 over most surfaces

STORAGE

The shelf life of ARDEX WPM 335 is 18 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.

CLEAN UP & 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.

SAFETY PRECAUTIONS

ARDEX WPM 335 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. Consult the relevant Safety Datasheet for further information available upon request and online at www.ardex-quicseal.com.

DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent the best of our knowledge and experience at the time of printing. They are primarily offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program.

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