



ARDEX WPM 109

Highly Flexible Cement-based Waterproof Coating

Flexible & Elastic, can bridge over cracks

Bonds to green concrete

Ability to withstand heavy topping without fracture

Excellent adhesion to sound substrate

Durable and UV resistant

Green Label certified

Approved HDB material



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Highly Flexible cement-based Waterproof Coating

DESCRIPTION

ARDEX WPM 109 is highly flexible cement based waterproofing coating for structures that retain or exclude water. It is designed to withstand high water pressure in many different applications. Formulated with non-toxic materials, ARDEX WPM 109 is ideal for potable water usage and exhibits excellent crack accommodation qualities even after long term water immersion.

APPLICATION RANGE

- Water Tanks
- Swimming pools and pool decks
- Corrosion protection for reinforcing steel
- Internal wet areas
- Water features and ponds
- Deck and Balcony

SUBSTRATE PREPARATION

Ensure that the substrate is clean and sound, free of dust, loose particles, grease or any other contaminants. The substrate must be damp but free from standing water.

MIXING

Pour the liquid component into a clean pail, and slowly add the powder component whilst stirring using a slow speed drill mixer until the mixture is homogeneous and free of lumps. Do not mix more material than can be utilized in one hour. DO NOT RE-TAMPER WITH WATER.O.

APPLICATION

Apply the mixed ARDEX WPM 109 using a stiff bristle brush, roller or trowel. For heavy 6 – 10 mm depressions, honeycombs etc, use a thicker mix by using slightly less liquid component. Where more than one coat is necessary, apply the second or subsequent coats after the previous coat has dried. Second coat after 1- 2 hours curing of the previous coat.

COVERAGE

ARDEX WPM 109 will cover approximately 0.85 – 1.25kg/m² per coat.

Minimum two coats with the total DFT of 1.2mm thickness for floor and 0.8mm for wall is recommended for an effective waterproofing membrane. Coverage will vary depending on the porosity of the surface.

DRYING TIME

Curing time will vary depending on temperature and humidity.

Recoat time:

1-2 hours (23°C/50%RH between first and second coats. Alternatively, if a woven cloth reinforcement mat is used between coats then the second coat can be applied whilst the first coat is still wet.

Dry through:

The slowest drying areas are those where the membrane has been applied over silicone bond breaker, eg. Wall and floor junctions. The membrane cannot be tiled over until these critical areas are completely dry. ARDEX WPM 109 is totally dry in 16 hours at 23°C/50% RH but can take up to 24 hours for corners or for thick film. In areas where bond breakers or additional reinforcement are not used. ARDEX WPM 109 can be tiled over after 4 hours at 23°C/50% RH.

PACKAGING

34 kg units of ARDEX WPM 109 are available in two components. The component A (Powder) is in 20kg pack, and the component B (Liquid) is in 14kg container.

LIMITATIONS

- Concrete substrate must be thoroughly pre-wetted before the coating is to be applied
- Part mixing is not recommended
- Do not use the product in the following situations:
 - Areas subject to negative hydrostatic pressure or rising damp, unless treated with ARDEX WPM 300

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Where the substrate is wet: wet surface can be sealed with one coat of 3.0 square metres per litre and allowed to cure overnight.

- Where rain is imminent.
- Where the membrane will be left exposed and subjected to regular foot traffic.
- On glazed, glass or other totally impervious surfaces (e.g. areas pre-treated with water repellants.)
- Where the surface temperature is below 10°C or greater than 35°C.
- All floor areas must have adequate falls either built into the substrate or achieved with a sand/cement screed prior to application of the ARDEX WPM 109.

For substrates or situation other than those listed, contact ARDEX Technical Service.

and should be handled and treated with caution. Avoid contact with eyes and wear face mask to prevent dust inhalation. Seek immediate medical assistance should irritation or ingestion occur. Additional information is in the Material Safety Datasheet available upon request and online at www.ardex.com.sg.

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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TECHNICAL PROPERTIES

	Component A	Component B
Colour	grey	milky white
Specific Gravity	-	1.03g/m ²
Bulk Density	1.35g/m ²	-
Mixing ratio	2	1.4
Specific Gravity (mixed)	1.8 kg/litre	

CLEANING

Tools and equipment should be cleaned immediately with solvent. Remove cured material with mineral turpentine.

SHELF LIFE AND STORAGE

Store in dry conditions (5°C - 35°C) away from the sunlight. Replace the lid tightly after use. ARDEX WPM 109 has a storage life of 12 months when stored in the original unopened containers.

SAFETY DATA

ARDEX WPM 109 is a cement based product