



MAS PERMAGUARD

(ANTI-CARBONATION PAINT)

General Description:

MAS PERMAGUARD is a high performance paint based on pure acrylic. It is flexible; high build decorative coating which provides protection against carbonation and water ingress, with good breathability without blistering. It's fast drying properties enables two coat applications to take place on the same day and facilitates year round usage, even in extreme weather condition. The cured membrane is elastic, enabling it to facilitate the movement in the substrate and to bridge hairline cracks, giving outstanding durability.

Advantages:

- High diffusion resistance to carbon dioxide.
- Excellent dirt pick-up resistance.
- Good adhesion properties.
- Good scrub resistance.
- Flexibility to accommodate hairline cracks.
- Outstanding water vapour permeability.
- Ease of application.
- Extremely low water absorption.
- Very good resistance to weathering, industrial emission and microbial attack.

Characteristics and Physical Properties:

Colour	As per colour card
Gloss	Satin
Viscosity	45 poise
Specific Gravity	1.35
pH value	>8.5
Solid content (W)	57 %
Solid content (V)	42 %
Coverage	5-6 m ² /li
Drying time	1-2 hrs.
Dry to recoat	5-6 hrs.

Water Vapour Transmission (BS EN ISO 7783:2011)	3.27 g/m ² d
CO ₂ permeability, i (BS EN 1062-6:2002 - Method A)	>2.9 g/m ² d
Diffusion equivalent air layer thickness, S _D	>80m
Diffusion coefficient for CO ₂ in air, D _{CO₂}	0.1597 cm ² /sec
CO ₂ diffusion resistance equivalent thickness of concrete	>0.2m
Elongation at Break (ASTM D 412-06a)	227%
Tensile strength (ASTM D 412-06a)	5.33 N/mm ²
Crack bridging (ASTM C836:95)	2.0 mm

Surface Preparation:

- Substrate must be free from all unsound materials and any form of contaminants.
- Surface laitance and any soft, sandy or flaking material should be removed by mechanical means back to a sound surface, suitable for treatment.
- All repair mortars must be allowed to cure for at least 72 hours.
- Concrete and cementitious screeds or renders must be a minimum of 10 days old and preferably 28 days.
- Old penetrated paint must be cleaned and treated with 3% ammonia and water.
- Glossy finish coat must be sanded.
- Mould or algae shall be removed with a proprietary fungicidal wash.

The above information is given to the best of our knowledge based on laboratory test and practical experience. However, as the paint is often used under condition beyond our control, we cannot guarantee anything but the quality of the paint itself. We reserve the right to change the given data without prior notice.

MAS PAINTS & CHEMICAL INDUSTRY

P.O. BOX NO: 23085, SAJJAH INDUSTRIAL AREA, SHARJAH, U.A.E

TEL NO: 009716 5311777; FAX: 009716 5311330

Website : <http://www.mas-paints.com>

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- High pressure water jetting may be deemed necessary for heavily contaminated surfaces.

Priming:

- Apply one (1) coat of MAS Masonry AR Primer to protect the surface from efflorescence.
- Apply one (1) coat of MAS Permaguard Primer, let dry prior to the application of Acrylic Stucco Filler (if needed) to evened-up the surface.

Application:

Apply MAS PERMAGUARD by brush, roller or airless spray at a nominal rate of 5m²/litre and allow to dry. A second coat may be subsequently applied at the same rate.

Note: This should achieve the 200 microns dry film thickness necessary for anti-carbonation properties. In applications where crack bridging properties are particularly important, a minimum d.f.t. of over 300 microns is recommended.

Limitations:

Do not apply the material less than 3^oC and 45^oC temperature.

Method of Application:

Airless Spray	
Recommended Thinner	Sweet water
Volume of Thinner	Approx. 0 – 5%
Nozzle orifice	0.46 – 0.53 mm
Brush/Roller	
Recommended Thinner	Sweet water
Volume of Thinner	Approx. 0 – 10%
For cleaning	Water

Typical Recommended System:

MAS Masonry AR Primer	1 coat
MAS Permaguard Primer	1 coat
Acrylic Stucco Filler	2 coats
MAS PERMAGUARD	2 coats

Storage:

The product must be stored in accordance with national regulations. The product should be kept in a cool and well ventilated place, protected from heat and direct sunlight. Containers must be kept tightly closed.

Cleaning of Tools:

All tools should be cleaned with water.

Packing:

Available in 1USG. and 5USG (18.9 ltr.)

Precautions:



See Safety Indication Sheet

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