

MasterProtect[®] 200

Flexible protective coating based on styrene – acrylic copolymer for exterior or interior use

DESCRIPTION OF PRODUCT

MasterProtect 200 is a flexible protective coating based on styrene – acrylic copolymer for exterior or interior use. Applied as a liquid it cures to form a durable, protective, waterproof membrane.

It is a single component emulsion containing inert pigments and has a brushable consistency.

MasterProtect 200 exceeds all the requirements of a coating that resists carbonation and prevents chloride ion ingress.

PRIMARY USES

MasterProtect 200 is designed for the protection of concrete structures against carbonation and chloride ingress. The product is also suitable as a seamless and elastomeric waterproofing coating for timber, asbestos/ fibre cement and zinc sheets, asphalt, built-up felt and tiles. Areas of application are:

- Multi-storey car parks
- Underpasses
- Bridge, soffits, wing walls
- Concrete repairs
- Commercial buildings
- Industrial buildings
- Waterproofing a variety of substrates
- Flat roofs

ADVANTAGES

- Easily applied by roller, brush or airless spray
- Flexible – capable of bridging cracks
- Protective – barrier against salts and atmospheric gases
- High-build – masking imperfections in substrates
- Waterproof – protects concrete from water-borne salts
- U.V. stable – maintains its appearance

PACKAGING

MasterProtect 200 is available in 20ltr pails with a polyethylene liner.

COLOURS

MasterProtect 200 is available in white, light grey and grey. Other colours are available upon request & subject to quantity considerations

TYPICAL PROPERTIES

MasterProtect 200 SG	1.35 at 25°C
Primer SG	Approx. 1.1 at 25°C
MasterProtect 200	
Viscosity	8000 cps
Primer Viscosity	12000 cps
Water vapour transmission:	45gms/m ² per 24 hours - Taywood
Chloride ion diffusivity:	4.98 x 10 ⁻¹⁰ cm ² /s
Reduction in chloride ion ingress @ 28 days	97%
Carbon dioxide diffusion:	R value at 325 microns
MasterProtect 200	greater than 161m
Volume solids:	55%
Primer Volume solids	30%
Primer Dilution rate	1:1 with water
Application temperature:	5°C to 50°C
Chemical resistance:	Resistant to spillage of gasoline, diesel, sewage, weak acids and alkalis
Elongation:	Min. 300%

APPLICATION PROCEDURE

MasterProtect 200 can be applied by brush, roller or airless spray equipment. For airless spray application, dilute with 7% (1.4ltr/20ltr unit) by volume of potable water. Use a tip size of 19-23 thou.

SURFACE PREPARATION:

All concrete surfaces should be treated to achieve a sound, clean surface free from laitance, oil, grease, mould release agent, residual curing compound, dust or other contaminants that could impair adhesion.

MasterProtect[®] 200

PRIMING

All surfaces should be primed with MasterProtect 200 primer applied at a rate of 100gr/m², to eliminate excessive suction and promote adhesion.

Allow the **MasterProtect 200** PRIMER to dry before proceeding with the top coats. Where the **MasterProtect 200** primer is used for chloride ion or carbonation protection then **MasterProtect 200** primer should be used as the priming system. It is necessary to open the concrete pores prior to the application of the **MasterProtect 200** primer.

FILLER/SCRAPE COAT:

Surface depressions, blow holes, aggregate pop-outs, etc. should be rectified with **MasterEmaco N 303**.

Allow to dry before over-coating.

APPLICATION

Apply in one or more coats ensuring a continuous even film. The finish may be textured if desired. Successive coats should be applied at right angles to each other.

SURFACE PREPARATION: ROOF WATERPROOFING

Surfaces to be treated should be clean and dust free. All traces of oil, grease, mould release agent and residual curing compounds should be removed together with any other contaminant that could impair adhesion. Previous waterproofing treatments should be either completely removed or put in order. Cracked, broken, slipped or missing tiles, sheets, slates or other forms of covering must be replaced or refixed. Cracks in asphalt or built-up felt systems should be filled with mastic and allowed to cure.

MasterProtect 200 primer, is required on all cement based and other porous substrates. It should be applied at 5m²/ltr and permitted to dry before proceeding.

APPLICATION

MasterProtect 200 is applied to the prepared surface in two coats, the first being allowed to dry, before the second is applied. In hot dry climates, application will be assisted by dampening brushes.

Where the roof is in poor condition, or where substantial movement is expected in the roof structure, apply a sandwich system incorporating reinforcing fabric. In this application, the fabric is bedded into the wet film of the first coat of **MasterProtect 200** using a charged brush. Ensure that full contact is achieved and there is no air entrapped. Apply a second coat of **MasterProtect 200** when the first has dried, at right angles to the first.

WEATHER CONDITIONS

MasterProtect 200 is not resistant to rain until the film has dried. This may take less than 30 minutes in hot dry climates and up to 24 hours in temperate humid conditions. Generally, the product should not be applied in rain or if rain is forecast. Similarly, **MasterProtect 200** will freeze in its wet state so should not be applied to frozen substrates or when the temperature is below 5°C, or is likely to fall during application.

COVERAGE

First Coat: should be diluted with 15% water and apply 0.15kg/m². Second Coat: dilute with 10% water and apply 0.13kg/m². Third coat (Optional) : dilute with 5% water and apply 0.1kg/m².

PRIMER

Should be diluted at the rate of 1:1, **MasterProtect 200** primer to Water and applied to approx. 100gr/m² depending on substrate condition.

MasterProtect® 200

STORAGE

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates, the product must be stored in an air conditioned environment.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice, consult Master Builders Solutions's Technical Services Department.

SHELF LIFE

Up to 12 months if stored in unopened containers according to manufacturer's instructions.

SPECIFICATION CLAUSE COATING:

The protective/decorative coating shall be

MasterProtect.

Surface preparation and application shall be strictly in accordance with the manufacturer's recommendations.

PREPARATION

All concrete surfaces shall be sound, clean and free of any loose material, non-compatible curing compounds, dirt and dust.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken, during use and storage, to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately.

If accidentally ingested, seek medical attention. Re-seal containers after use. Use in well-ventilated areas and avoid inhalation.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY STATEMENT

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

* Properties listed are based on laboratory controlled tests.

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