

# MasterProtect<sup>®</sup> 300

**Pigmented, elastomeric and protective waterproof and anti-carbonation coating for concrete and concrete structures**

## DESCRIPTION

**MasterProtect 300** is an elastomeric coating based on acrylic co-polymers. Applied as a liquid it cures to form a durable, protective, waterproof membrane.

It is a single component emulsion containing inert pigments suitable for application by brush, spray or roller.

**MasterProtect 300** prevents chloride ion ingress. And exceeds all the requirements of a coating that resists carbonation.

## PRIMARY USES

**MasterProtect 300** is designed for the protection of concrete structures against carbonation, chloride water ingress. The product is also suitable as a seamless and elastomeric waterproofing coating for timber, asbestos / fiber cement and zinc sheets, asphalt, built-up felt and tiles.

### Areas of application are:

- Concrete repairs.
- Marine environments
- Bridge and highway structures
- Underpasses.
- Multi story car parks.
- Commercial buildings.
- Industrial buildings.
- Waterproofing a variety of substrates.
- Flat roofs and sloping roofs

## ADVANTAGES

- Elastomeric - capable of bridging cracks.
- Easily applied by roller, brush or airless spray.
- Provides barrier against salts and atmospheric gases.
- Waterproof - protects concrete from waterborne salts.
- U.V. stable - maintains its appearance.

## PACKAGING

**MasterProtect 300** is supplied in 20 liter pails.

**MasterProtect FL 100:** 25kg bags

## TYPICAL PROPERTIES

Relative density:	1.3±0.1 at 25°C
Tensile strength as per ASTM D412	>2.0MPa
Reduction in chloride ion ingress @ 28 days	97%
Bond strength ASTM D4541	>2 MPa
Water absorption	<1%
Application temperature	5°C to 35°C
Chemical resistance:	Resistant to spillage of gasoline, diesel, sewage, weak acids and alkalis
Colors:	Light Ivory, Grey and White. Also available in other colors upon request
Appearance after 300hrs accelerated weathering	No color change,, cracking chalking or blistering observed

## APPLICATION PROCEDURE

**MasterProtect 300** can be applied by brush, roller or airless spray equipment. For airless spray application dilute with 7% (1.4 liter/20 liter unit) by volume of potable water. Use a tip size of 19-23 thou.

## SURFACE PREPAATION: CONCRETE

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

## PRIMING

All external surfaces should be primed with **MasterKure 181** applied at approximate rate of 5m<sup>2</sup>/liter, to eliminate excessive suction and promote adhesion. In temperatures >25°C, application should be made a minimum of three hours before applying the **MasterProtect 300** coating. In cold, humid conditions 24 hours is required to ensure full solvent release.

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For internal surfaces such as car park walls, columns and soffits PCI Primer **MasterTile P 302** may be used as an alternative primer. Please go to the latest PCI Primer **MasterTile P 302** datasheet for application rates and details.

Coating the concrete at an early stage prevents penetration of deleterious salts. **MasterKure 181** is recommended for metal decks.

## APPLICATION:

**MasterProtect 300** 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 300** using a charged brush. Ensure that full contact is achieved and there is no air entrapped. Apply a second coat of **MasterProtect 300** when the first has dried, at right angles to the first.

## FILLER/SCRAPE COAT

Surface depressions, blow holes, aggregate pop-outs etc., may be rectified with **MasterProtect FL 100**.

The filler is tightly scraped onto the surface to be overcoated, paying particular attention to ensure blemishes are filled. Deeper aggregate pop-outs may require filling in two layers.

The treated surface should be left to cure until the deepest depressions are dry to the touch before overcoating.

## APPLICATION:

Apply in one or more coats ensuring a continuous even film. The finish may be textured if desired.

## SURFACE PREPARATION: ROOF WATERPROOFING

Surfaces to be treated should be clean and dust free. All traces of oil, grease, mold 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 re-fixed. Cracks in asphalt or built-up felt systems should be filled with mastic and allowed to cure.

## WEATHER CONDITIONS

**MasterProtect 300** 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 300** will freeze in its wet state so should not be applied to frozen substrates or when the temperature is below 5°C or likely to fall during application.

## COVERAGE

Approximately 0.64Lt/m<sup>2</sup> to achieve a DFT of 400 microns (applied in a minimum of two coats).

Minimum coverage: 0.40 liter / m<sup>2</sup> to achieve a DFT of 250 microns.

## STORAGE

Store under cover out of direct sunlight and protect from extremes of temperature. If stored at high temperatures or high humidity levels, the shelf life of this product may be reduced. Shelf life is 1 year.

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.

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## 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. Reseal 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 AND CARE

All Master Builders Solutions Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and Master Builders Solutions ESHQ recommendations.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC-Group in many countries

## CONTACT

Should you require any further information, please do not hesitate to contact us:

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### Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

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