



The Chemical Company

# MASTERSEAL<sup>®</sup> 300H (Sonoshield 300H)

Decorative, flexible, anti-carbonation and waterproof protective coating for concrete

## DESCRIPTION

**MASTERSEAL 300H** is a flexible, 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 of brushable consistency containing inert pigments.

**MASTERSEAL 300H** exceeds all the requirements of a coating that resists carbonation and prevents chloride ion ingress.

## FIELDS OF APPLICATION

**MASTERSEAL 300H** is suitable as a seamless and elastomeric waterproofing coating for timber, fibre cement and zinc sheets, asphalt, built-up felt and tiles. The product is also designed for the protection of concrete structures against carbonation and chloride ingress. Areas of application are :

- R.C. roof decks
- balconies and terraces
- bridges, soffits, wing walls
- concrete repairs

## FEATURES AND BENEFITS

<b>Single component</b>	No mixing required.
<b>Easily applied</b>	Can be applied by non skilled labour.
<b>Flexible</b>	Capable of bridging stationary cracks.
<b>Anti carbonation</b>	Barrier against salts and atmospheric gases.
<b>High-build</b>	Masking imperfections in substrates.
<b>Waterproof</b>	Versatile and multi purpose.
<b>U.V stable</b>	Long service life and maintains its appearance.

## TYPICAL PERFORMANCE DATA

Accelerated Weathering - 5736 hours (BS3900: 71)	: No cracking or crazing
Tear Resistance (ASTM D624:91)	: 7.3KN/m
Microbiological test. (Thorchem Lab)	: Anti-microbial activity
Crack bridging test (BRE)	: 5.10mm
Pull off strength	: 1.1 N/mm <sup>2</sup>
Chloride ion diffusion	: 4.98 x 10 <sup>-10</sup> cm <sup>2</sup> /s

Reduction in chloride ion ingress @ 28 days	: 97%
Carbon dioxide diffusion	: R value at 325 microns greater than 161m
Elongation	: >400%

## PROPERTIES

Relative density	: 1.35 at 25°C
Water vapour transmission (Taywood)	: 45gms/m <sup>2</sup> per 24 hours
Application temperature	: 5°C to 50°C
Chemical resistance	: resistant to spillage of gasoline, diesel, sewage, weak acids and alkalis
Colours	: Grey and White

## APPLICATION

### Surface preparation

#### Concrete

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

#### 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 completely removed. 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.

### Priming

All surfaces should be primed with MASTERKURE 181 using a squeegee, and applied at a rate of 5m<sup>2</sup>/L, to eliminate excessive absorption and promote adhesion. In temperatures >25°C, application should be carried out a minimum of three hours before applying the **MASTERSEAL 300H** coating. In cold, humid conditions, 24 hours is required to ensure full solvent release.

Note : **MASTERSEAL 300H** 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 imminent. Similarly,

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**MASTERSEAL 300H** 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.

## Placing

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

**MASTERSEAL 300H** can be applied by brush, roller or squeegee.

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

## ESTIMATING DATA

Depending on the substrate profile 1-2m<sup>2</sup>/L.

## PACKAGING

**MASTERSEAL 300H** is available in 20L pails.

## SHELF LIFE

**MASTERSEAL 300H** can be kept for 12 months in original unopened packaging, if stored 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.

## PRECAUTIONS

For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions in the product Material Safety Data Sheet.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

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