



The Chemical Company

# MASTERSEAL® 150

Elastic protective & architectural acrylic anti carbonation coating

## DESCRIPTION

**MASTERSEAL 150** is a high-grade acrylic resin based elastic coating for the long-term protection of concrete, mortar, masonry and natural stone against aggressive atmospheric attack including carbon dioxide and chloride ions. **MASTERSEAL 150** may be used to bridge cracks or to impart a textured finish to surfaces. **MASTERSEAL 150** forms part of the BASF Construction Chemicals Concrete Repair System.

## RECOMMENDED FOR

**MASTERSEAL 150** is recommended for the protection of concrete facades, walls, bridges, balconies etc. against chloride ion or carbon dioxide ingress. **MASTERSEAL 150** is particularly suited to elevations subject to slight cracking. The elasticity of the product ensures that slight cyclic movement is catered for without compromising the protective layer.

The product may be applied to provide a smooth or textured finish.

## FEATURES AND BENEFITS

- UV resistant
- Waterproof and weatherproof
- High chloride ion resistance
- High CO<sub>2</sub> and SO<sub>2</sub> diffusion resistance
- Available in a wide colour range
- Vapour permeable
- Dirt repellent
- Decorative, durable protection

## PERFORMANCE DATA

Water vapour transmission rate (WVT): (ASTM-E-96)	33.4g/m <sup>2</sup> /24 hrs
CO <sub>2</sub> Resistance (Engelfried method):	
Equiv.air layer thickness(R)	464m @ 400 µm
Elongation (ASTM D-412)	575%
Tensile strength (ASTM D-412)	16.7kg/cm <sup>2</sup>
Crack-bridging	5.6mm at 400 µm
Adhesion (AS 1500 408.2)	4/5 excellent

## SPECIFICATIONS (Typical)

Supply form:	Thick creamy paste
Colour:	Various
Density:	1.3kg/L
Volume solids (v/v):	50% (±2%)
Application Temperature:	Minimum 5 C Maximum 35 C
*Overcoating time -	6 hrs
*Full drying time -	7 days
*Serviceable drying time -	24 hrs
*subject to ambient conditions	
*all at 25 C and 50% RH	

## APPLICATION DIRECTIONS

### Substrate Condition

The substrate must be free of dirt, dust, grease, oil, mould release agents, bondbreakers, laitance and any other contaminants that may interfere with adhesion. Freshly poured concrete should be left for 14 days. Thin layer levelling agents may be overcoated after 24 hours. The moisture level of the substrate should not be higher than 7% by volume.

No surface water should be present.

### Priming

The surface should be primed with **MASTERSEAL 155 Primer** applied by brush or roller at a rate of not less than 0.08L/m<sup>2</sup> or 12.5m<sup>2</sup>/L (refer to **MASTERSEAL 155 Primer** Data Sheet).

### Mixing

**MASTERSEAL 150** should be thoroughly stirred before use.

### Method of Use

Normally two coats of **MASTERSEAL 150** are applied. The second coat should be applied as soon as the first coat is dry (typically 6 hours). **MASTERSEAL 150** may be applied by roller, brush or airless spray.

**Note:** Where a textured finish is required the product should be applied by medium nap roller and over-rolled with the textured roller to give the desired finish in one direction only.

### Drying

The drying times indicated should be adhered to. The freshly applied material should be protected from rain and frost for 24 hours.

## ESTIMATING DATA

<b>MASTERSEAL 155 Primer</b>	0.08L/m <sup>2</sup> per coat (12.5m <sup>2</sup> /L)
<b>MASTERSEAL 150</b>	0.3L/m <sup>2</sup> per coat (3.33m <sup>2</sup> /L)

**Note:** the above are theoretical and make no allowance for loss, wastage or substrate porosity.

## COLOURS

**MASTERSEAL 150** is available in a wide range of colours. White WE2 and dark grey GY2 are available ex-stock; other colours will be manufactured to order.

**Note:** minimum quantities may apply.

## CLEANING

Since **MASTERSEAL 150** is an acrylic emulsion, tools etc. can be cleaned with water before it dries. Once cured, **MASTERSEAL 150** is very difficult to remove



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## PACKAGING

MASTERSEAL 150 is available in 15L pails.

## SHELF LIFE

MASTERSEAL 150 has a 12 months shelf life if kept tightly closed in its original container at a moderate temperature, protected against direct sunlight and frost.

## PRECAUTIONS

Exercise care when handling. Avoid contact with skin and eyes. If contact is made with skin, remove contaminated clothing, wash contacted area well with soap and water. If irritation persists seek medical aid. If in eyes, do not rub in. Wash immediately with plenty of water.

If swallowed give a glass of water and seek immediate medical advice. Avoid inhalation of spray mists.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Construction Chemicals **Material Safety Data Sheet (MSDS)** from our office or our website.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** 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

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

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