



The Chemical Company

MASTERSEAL[®] 150 (Barracryl Elastic)

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.

FIELDS OF APPLICATION

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 CO₂ and SO₂ diffusion resistance
- Available in a wide colour range
- Vapour permeable
- Dirt repellent
- Decorative, durable protection

TYPICAL PERFORMANCE DATA

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

PROPERTIES

Supply form:	Thick creamy paste
Colour:	Various. White and dark grey are available ex-stock. Other colours will be manufactured to order. Minimum quantities may apply.
Density:	1.3 kg/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

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 (Barracryl Primer) applied by brush or roller at a rate of not less than 0.08L/m² or 12.5m²/L [refer to MASTERSEAL 155 Primer (Barracryl 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.

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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

MASTERSEAL 155 Primer (Barracryl Primer)	0.08L/m ² (12.5m ² /L)	per	coat
MASTERSEAL 150	0.3L/m ² (3.33m ² /L)	per	coat

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

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

PACKAGING

MASTERSEAL 150 is available in 15L pails.

SHELF LIFE

MASTERSEAL 150 has 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 detailed Health, Safety and Environmental recommendations, please refer to and follow all instructions on 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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