

MASTERSEAL[®] F1131

Elastic & Crack-Bridging, Protective, Anti-Carbonation Coating for Concrete and Masonry.

Description

MASTERSEAL F1131 is a smooth, water based acrylic coating that on curing forms an elastomeric, crack-bridging, protective, anticarbonation and weather-proof finish.

Fields of Application

MASTERSEAL F1131 can be applied over concrete, masonry and cement plaster to bridge cracks with a movement of up to 0.3 mm.

Features and Benefits

- As an integral final treatment in the repair and protection of reinforced concrete.
- Elastomeric, excellent crack-bridging properties.
- Smooth, decorative finish.
- Excellent resistance to CO₂ and SO₂ diffusion, frost, de-icing salts and ultra-violet light.
- Water vapour permeable.
- Water based, non-flammable and low odour.
- High aging resistance- provides excellent durability.
- Ready to use.
- Application equipment can be cleaned with water.

Technical data (a)

Density	1.37 – 1.41kg/l
Solids by volume	52 ±1%
Vapour permeability - μH ₂ O	430 - 530
CO ₂ -permeability - μCO ₂	533000

(a) Typical values – all tests have been performed under temperature controlled conditions of 21°C.

Colours

MASTERSEAL F1131 is available in four standard NCS colours:

White

Ivory NCS S 0804 - Y10R

Cream NCS S 0510 - Y20R

Light Grey NCS S 1502 - Y

A range of other colours to NCS and BS standards are available upon request. Contact your local BASF-CC Concrete Repair Specialist or our sales office.

Application Procedure

Quality of the Substrate

Fresh concrete and masonry should be allowed to cure for at least 28 days before application.

Preparation of the Substrate

Substrates to be treated must be completely clean, structurally sound and mechanically keyed. All substrate coatings, defective renders, foreign matter, formwork treatments and other contaminants that may affect the bond adversely should be removed.

Treat any area affected by algae or moss, with a suitable propriety fungicide, after the surface preparation has been completed.

Substrates containing surface cracks, blowholes and minor irregularities should be re-profiled with a suitable product from the Emaco Nanocrete range.

Mixing and Priming

Stir MASTERSEAL F1131 before use.

Priming is not normally required, however if the substrate is very porous one primer coat should be applied consisting of MASTERSEAL F1131 diluted with up to 10% by volume, clean potable water. Mix the water thoroughly in before application by brush, roller or spray.

Application

Do not apply MASTERSEAL F1131 when the ambient temperature or the substrate temperature is below 9°C and will drop below 5°C within 24 hours.

In order to avoid condensation, the surface temperature during application should be 3°C higher than the dew point.

The surface should be air-dry. At temperatures above 35°C dampen the surface prior to the application.

Apply MASTERSEAL F1131 with a brush, roller, airless or conventional spraying equipment. For a uniform appearance, finish in the same pattern.

The coverage and crack-bridging capacity is dependant upon the thickness of the coating. We recommend you always check the consumption.



The Chemical Company

Curing

Allow the first coat to completely dry, before applying the second coat. The drying time depends upon climatic conditions. Allow a minimum of 4 hours between coats at 20°C (<70% RH).

Consumption

Priming (if required): 1 coat of diluted MASTERSEAL F1131 applied at 5-6 m²/litre.

Topcoat: 2 coats of MASTERSEAL F1131 applied at a combined rate of: 0.50 to 0.71 l/m².

The finished 2 coat application should have a dry film thickness between 235 to 370 µm.

15 litres will cover between 21 -30m² in 2 coats.

Consumption is dependant on substrate porosity and profile. We recommended that a trial area is treated to determine coverage rates.

Clean up

Immediately after use clean application equipment thoroughly with water.

Dry spillages can be removed using xylene.

Packaging

MASTERSEAL F1131 is supplied 15 litre plastic pails.

Storage

MASTERSEAL F1131 should be stored under cover, clear of the ground and stacked not more than 2 pails high. Protect the materials from all sources of moisture, direct sunlight and frost.

Shelf Life

MASTERSEAL F1131 has a shelf life of 12 months when stored in undamaged, unopened containers.

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Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

Spillage

Chemical products can cause damage; clean spillage immediately.

Disclaimer:

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.