

MASTERSEAL[®] F1120

Single Component Protective and Decorative Anti- Carbonation Coating for Concrete and Masonry.

Description of Product

MASTERSEAL F1120 is a single component, water based coating formulated from a blend of high performance polymer emulsion with pigments, fine fillers and biocide.

The coating provides a protective and decorative finish for exterior and interior use on concrete and other substrates. It is formulated to give a tough, durable film with excellent adhesion to concrete and resistance to weathering and industrial pollution.

Fields of Application

- As an integral final treatment in the repair and protection of reinforced concrete.
- Aesthetically pleasing, smooth matt finish to refurbished and new buildings.
- Provides anti-carbonation properties and also protection against damage by water borne salts such as chlorides.
- As a final cosmetic uniform finish.

Features and Benefits

- Fast drying –reduced overcoat times.
- Easy to use, apply by brush, roller or spray.
- Water based, non-flammable and low odour.
- Excellent protection against condensation, weather and atmospheric pollution.
- Good opacity and colour retention.
- Alkali resistant.
- Moisture vapour permeable, allows concrete to “breathe”.
- For internal and external use, above ground level.
- Application equipment can be cleaned with water.

Technical data(a)

Density	1.4 – 1.5 kg/l
Solids by volume	46.0% ±1%
Vapour permeability- $\mu\text{H}_2\text{O}$	850 - 900
CO ₂ permeability - μCO_2	1150000

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

Colours

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 proprietary 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 F1120 before use.

Priming is not normally required, however if the substrate is very porous one primer coat should be applied consisting of MASTERSEAL F1120 diluted with up to 10% by volume, clean potable water. Mix the water thoroughly in before application by brush, roller or spray.



The Chemical Company

Application

Do not apply MASTERSEAL F1120 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 F1120 with a brush, roller, airless or conventional spraying equipment. For a uniform appearance, finish in the same pattern.

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 F1120 applied at 5-6 m²/litre.

Topcoat: 2 coats of MASTERSEAL F1120 applied at a combined rate of 0.3 to 0.6 l/m² (nominal consumption 0.4l/m²).

15 litres will cover between 25 -50m² 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 F1120 is supplied 15 litre plastic pails.

Storage

MASTERSEAL F1120 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 F1120 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.