

# MasterProtect 330 EL

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

### DESCRIPTION

MasterProtect 330 EL is a smooth, water based acrylic coating that on curing forms an elastomeric, crack-bridging, protective, anti-carbonation and weather-proof finish.

### FIELDS OF APPLICATION

MasterProtect 330 EL 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 CO<sub>2</sub> and SO<sub>2</sub> 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.

### APPLICATION PROCEDURE

#### SUBSTRATE QUALITY

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

#### SUBSTRATE PREPARATION

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 MasterEmaco range.

### APPLICATION METHOD

#### Mixing & Priming

Stir MasterProtect 330 EL before use. Priming is not normally required, however if the substrate is very porous one primer coat should be applied consisting of MasterProtect 330 EL 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 MasterProtect 330 EL 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 MasterProtect 330 EL 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.

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BASF Belgium Coordination Center Comm. V. Business Belux - Construction Chemicals Nijverheidsweg 89, B-3945 Ham	
<b>11</b> BE0019/01	
<b>EN 1504-2</b> <b>Crack-bridging, anti-carbonation and protective acrylic coating</b> <b>EN 1504-2 Principles 1.3 / 2.3 / 8.3</b>	
Abrasion resistance	Pass
Adhesion strength by Pull off	≥ 0,8 MPa
Permeability to CO <sub>2</sub>	S <sub>d</sub> > 50 m
Water vapour permeability	Class I
Capillary absorption and permeability to water	≤ 0,1 kg/m <sup>2</sup> x h <sup>0.5</sup>
Thermal compatibility: for outside application with de-icing salt influence. Freeze/Thaw with salt & Thunder/Shower	≥ 0,8 MPa
Crack bridging ability	A1 (-15°C) A2 (-10°C) B2 (+23°C)
Artificial weathering	Pass
Reaction to fire	E
Dangerous substances	Comply with clause 5.3 of EN 1504-2

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### FINISHING AND CLEANING

Immediately after use clean application equipment thoroughly with water.

Dry spillages can be removed using xylene.

### 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).

### PACKAGING

MasterProtect 330 EL is supplied 15 litre plastic pails.

### COVERAGE

Priming (if required): 1 coat of diluted MasterProtect 330 EL applied at 5-6 m<sup>2</sup>/litre.

Topcoat: 2 coats of MasterProtect 330 EL applied at a combined rate of: 0.50 to 0.71 l/m<sup>2</sup>.

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

15 litres will cover between 21 -30m<sup>2</sup> in 2 coats.

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

### STORAGE

MasterProtect 330 EL 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

MasterProtect 330 EL has a shelf life of 12 months when stored in undamaged, unopened containers.

### HANDLING AND TRANSPORT

Usual preventive measures for the handling of chemical products should be observed when using this product, for example do not eat, smoke or drink while working and wash hands when taking a break or when the job is completed.

Specific safety information referring the handling and transport of this product can be found in the Material Safety Data Sheet. For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

Disposal of product and its container should be carried out according to the local legislation in force. Responsibility for this lies with the final owner of the product.

### CONTACT DETAILS

BASF plc,  
Construction Chemicals,  
19 Broad Ground Road  
Lakeside  
Redditch  
Worcestershire  
B98 8YP  
Tel: +44 (0) 1527 512255  
Fax +44 (0) 1527 503576  
[www.master-builders-solutions.basf.co.uk](http://www.master-builders-solutions.basf.co.uk)

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Product Data		
Property	Unit	Data
Density	kg/l	1.37 – 1.41
Solids by Volume	-	52% ± 1%
Vapour permeability- $\mu\text{H } 2\text{O}$	-	430 - 530
CO <sub>2</sub> permeability - $\mu\text{CO}_2$	-	533000
Colours – 4 Standard colours		White No NCS number 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 Plc, Construction Products Technical Department or our sales office.		

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

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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.

### Solvent Based Products

Use in well ventilated areas; avoid inhaling. Suitable respiratory equipment may be needed, eg when spraying. Can cause skin, eye irritation. Wear protective eye shields and gloves during use. Do not smoke or allow sparks or naked lights when stored or in 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

"BASF plc, Construction Chemicals" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.