

MasterPel 790

Water resisting admixture for concrete - EN 934-2: T9

DESCRIPTION

MasterPel 790 is a highly penetrative low viscosity emulsion for surface application to concrete, masonry and blockwork surfaces, or for use as a high performance integral waterproofer for wet or dry cast concrete. On curing it provides a waterproof surface/product with minimum effect on the original appearance and texture.

FIELDS OF APPLICATION

Surface:

- Decorative stone and concrete
- Drives and forecourts
- Patios and paths
- Masonry and brickwork
- Concrete walls

Integral use:

- Cast stone
- Concrete bricks, blocks, block paving
- Precast wet or dry concrete

FEATURES AND BENEFITS

MasterPel 790 offers the following benefits:

- Provides frost resistance
- Inhibits algae and moss growth
- Preserves original appearance
- Stops or reduces efflorescence
- Reduced water permeability
- Improves colour retention
- Low odour, low toxicity formula

DOSAGE

Dosage rates for integral use will depend on the type of product, mix and degree of waterproofing required. The normally recommended dosage rate is:

- *By Volume* - 0.50 to 2.00 litres per 100Kg of cement (binder).
- *By Mass* - 0.50 to 2.00 kg per 100 Kg of cement (binder).

Users should carry out trials with their mix to achieve the optimum dosage. Other dosages may be used in special cases according to specific job site conditions. In this case please consult our Technical Services Department.

SUBSTRATE PREPARATION

This product should ideally be applied to new surfaces. Application is possible onto fresh wet or semi dry concrete surfaces that are free from standing water.

It is suitable for older surfaces that have been cleaned abrasively to provide a clean fresh surface. Remove any oil or grease marks etc. Vacuum-remove all dust and loose matter etc. If the surface has been washed, allow to surface dry before application.

APPLICATION PROCEDURE

Stir before use. Apply MasterPel 790 directly onto the surface in two coats. The second coat should be applied as soon as the first coat has surface dried. All coats must be applied in the one-day. Protect the applied surface for 24 - 36 hours from contamination, traffic or rain.

Avoid contact of the wet product with animals, plants or water features. The product is of low toxicity but can adversely affect the respiration of live plants and aquatic life including fish.

Application may be by brush, roller, spray, flooding or dipping. Do not use below 5°C.

COVERAGE

The coverage of this product will be highly dependent on surface texture, porosity and application method. More than two coats may be required on highly textured and porous surfaces.

Typically a spray application to a concrete block, block paving will require a coverage rate of 3.5 m² per litre per coat. (Normally two coats)

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INTEGRAL USE

Add to the mix with the mixing water. Some water reduction may be experienced. Setting times and strength development are unaffected. All cast products should be protected from rain for 24 - 36 hours after casting to allow the MasterPel 790 to develop full waterproofing.

Products made incorporating MasterPel 790 can be cured at elevated temperatures and/or humidity's, (not steam). Do not cure products in water.

MAINTENANCE OF TREATED SURFACES

MasterPel 790 will significantly reduce the deterioration and staining of treated surfaces, but for optimum performance in heavily trafficked areas, regular cleaning should be maintained. Power washing and/or use of scrubber/dryers is recommended.

Over-coating is not recommended unless carried out after an abrasive clean. The performance life of MasterPel 790 is in excess of 10 years subject to the wear imposed on the surface to which it is applied.

WATCHPOINTS

- Agitate prior to use in order to avoid possible separation.
- Avoid contact of the liquid product with live plants or aquatic life. The cured product is non-toxic.
- Avoid contact with glass or glazed surfaces, which may be dulled.
- Only use on new or fresh surfaces - this product will highlight and make permanent grease marks, stains, algal growth or efflorescence.
- MasterPel 790 will not directly reduce the slip resistance of the substrate, but as it significantly reduces the porosity of the treated surface, adequate drainage is necessary to avoid water ponding in horizontal areas.
- MasterPel 790 treated surfaces cannot be over coated with any subsequent treatment without abrasive cleaning.

CLEANING

Clean all equipment with water immediately after use.

PACKAGING

MasterPel 790 is available in 1000-litre IBC's and 25-litre containers.

CONTACT DETAILS

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Product Data	
Appearance:	White liquid
Specific gravity @ 20°C:	1.00 ± 0.02 g/cm ³
pH-value:	7.0 ± 1
Alkali content (%):	≤ 0.10 by mass
Chloride content (%):	≤ 0.10 by mass
Corrosion behaviour:	Contains only components according to BS EN 934-1:2008, Annex A.1
Air Content:	Fulfilled
Capillary Absorption:	Fulfilled
Compressive strength:	Fulfilled
Durability:	NPD
Dangerous substances:	NPD
Logistics	
Shelf life:	6 months if stored according to manufacturer's instructions in unopened container.
Storage conditions:	Store in original sealed containers and at temperatures between 5°C and 30°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Handling and transportation:	Refer to MasterPel 790 Safety Data Sheet
Disposal:	Refer to MasterPel 790 Safety Data Sheet



Certificate No. 0086-CPD-469071

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Declaration of Performance can be found at www.master-builders-solutions.basf.co.uk

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MasterPel 790, BASF plc, Construction Chemicals, Version 3

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.

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.