

MasterPel 793

Water resistant admixture for Manufactured Concrete Products.

Material description

MasterPel 793 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.

The 4 VALUES concept:

MasterPel 793 is a component of Master Builders Solutions 4 VALUES concept. 4 VALUES considers the four elements essential for MCP Manufactures:

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- for Economics;
- for Performance;
- for Aesthetics;
- for Durability.

Fields of Application

Surface:

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

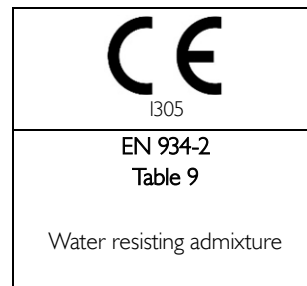
Integral use:

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

Features and Benefits

- 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.

In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking according to UNI EN 934-2 and the relative DoP (Declaration of Performance).



Dosage

Dosage rates 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 liters per 100 kg 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.

Packaging and storage

MasterPel 793 is available in 10L cans, 208L drums, 1.000L tanks and in bulk.

MasterPel 793 must be stored indoors in a place where temperature does not drop below + 5°C. If product has frozen, thaw at + 3 °C and agitate until complete reconstitution. 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. The shelf life of MasterPel 793 can be 6 months if stored in accordance with manufacturer's instructions in unopened containers.

For specific storage advice, consult our Technical Services Department.

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Technical information	
Form	White Emulsion
Relative density (g/ml at 20°C)	0.972 – 1.012
Essential characteristic in accordance to EN 934-2	Performance
Chloride ion content	≤ 0.1% by mass
Alkali content (Na ₂ O equivalent)	≤ 2.5%
Corrosion behaviour	Contains component only from EN 934-1: 2008 Annex A. I
Compressive strength	28 days ≥ 85%
Air content	≤ 2.0 %
Capillary absorption	7 days curing, 7 days tested ≤ 50% 90 days curing, 28 days tested ≤ 60%

Directions for use

Preparation of substrate

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

Stir before use. Apply MasterPel 793 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 will require a coverage rate of 3.5 m² per liter per coat. (Normally two coats).

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 793 to develop full waterproofing.

Products made incorporating MasterPel 793 can be cured at elevated temperatures and/or humidity's (not steam). Do not cure products in water.

Maintenance of treated surfaces

MasterPel 793 will significantly reduce the deterioration and staining of treated surfaces, but for optimum performance in



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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 surface texture, porosity and application method. More than two coats may be required on highly textured and porous surfaces.

Cleaning

Clean equipment with water immediately after use.

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 793 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 793 treated surfaces cannot be over coated with any subsequent treatment without abrasive cleaning.

Safety instruction

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

Other services

For additional technical information, brochures, references, technical reports and technical support please visit www.master-builders-solutions.com/it-it or alternatively contact infomac@masterbuilders.com.

Scan QR code to visit the product page and download the latest version of this technical data sheet and any additional documentation.



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Disclaimer

Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

For further information, please consult the local Technician of Master Builders Solutions. The technical advice on how to use our products, either written or verbally given, are based on the current state of our scientific and practical expertise, and does not imply the assumption of any guarantee and/or responsibility for the final results of works executed using our products.

Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.

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