

# MasterPel 790

Concrete Waterproofing Admixture and efflorescence inhibitor.

## Material description

MasterPel 790 is a chloride free liquid emulsion, which is added to the mixture to giving waterproofing characteristics to the concrete once cured.

The use of MasterPel 790 allows the significant reduction of water permeability in concrete in its hardened state.

## Fields of application

MasterPel 790 is used to obtain waterproof concrete for foundations, buried or semi buried walls, ground elements and prefabricated structures.

Use for pools, tanks, reservoirs, canals etc. In the case of constant water pressure it is advisable to reduce the W/C ratio through the use of additives from the MasterGlenium range.

## Compatibility

It is also recommended to use MasterPel 790 in combination with:

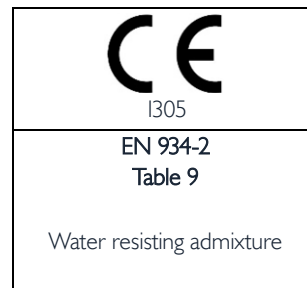
- compacted and active silica fume MasterLife MS 610 to further improve the durability in particularly aggressive environments or to obtain high resistance concrete (R<sub>ck</sub> ≥ 100 MPa);
- expansive agent in powder from MasterLife SRA 150 to obtain shrinkage-compensated concrete.

## Example of performances

	W/C ratio	Average Penetration (mm) <sup>(*)</sup>	Maximum Penetration (mm)
MasterPel 790 dos. 1 l/m <sup>3</sup>	0.60	18	29
No admixture	0.60	64	78

(\*) Dept of water penetration under pressure according to UNI EN 12390-8.

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

The recommended dosage for MasterPel 790 ranges from 0,5 to 1,5 liters per m<sup>3</sup>.

Different dosages are possible in relation to the specific working conditions, and in any case after consultation with the technical personnel of Master Builders Solutions Spa Italy.

## Packaging and storage

MasterPel 790 is available in 10L cans, 208L drums, 1.000L tanks or bulk.

Store product in a covered area and at temperature not lower than +5 °C. It is advisable to avoid high temperatures and direct sunlight.

Once frozen, the product is no longer usable. Under the conditions described in the original packaging and if sealed, MasterPel 790 may be stored for a period of 12 months.

MasterPel 790 treated surfaces cannot be over coated with any subsequent treatment without abrasive cleaning.

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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 <sub>2</sub> 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

MasterPel 790 is a ready to use product and added after all the other components of concrete, including a possible water-reducing additive, are inserted and mixed.

## Compatibility

MasterPel 790 is compatible with all superplasticizers and additives of the MasterGlenium, MasterEase, MasterSure and MasterCO<sub>2</sub>re line.

## 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](http://www.master-builders-solutions.com/it-it) or alternatively contact [infomac@masterbuilders.com](mailto: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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