

MasterPel SP 400I

Product for the surface treatment of paving stones and other Manufactured Concrete Elements (MCP), that improves the aesthetics and prevents efflorescence.

Description and where to use

The product MasterPel SP 400I is specifically developed for the surface treatment of MCP products, i.e. concrete elements made of dry and semi-dry concrete: paving stones, flags, kerbstones etc. Once treated with MasterPel SP 400I, the surface is hydro-repellent and more brilliant. Additionally, MasterPel SP 400I offers a protection against the formation of efflorescence and, in the case of pigmented elements, ensures superior stability of the color over the time.

The paving blocks treated with MasterPel SP 400I will have a glossy aspect, increasing with dosage.

MasterPel SP 400I is characterized by a low viscosity and can be easily sprayed on the surface.

MasterPel SP 400I can be applied by spraying or rolling on the surface of pavers, immediately after compaction and stripping; alternatively, the treatment after curing in the chamber is also possible. If applied in the production line after demolding, MasterPel SP 400I does not require any drying treatment: the elements can be transferred directly to the curing chamber, according to the standard production cycle. By combining the surface application of MasterPel SP 400I to the use of the admixtures MasterPel 793/708 in the mass of concrete, it is possible to attain a TOTAL PROTECTION of the concrete elements: not only the surface is protected, but the whole body of concrete, thereby providing superior aesthetics and minimization of efflorescence.

4 VALUES

The concept 4 VALUES is based on the 4 values that are important for the producers of earth-moist concrete elements (Manufactured Concrete Products, MCP):

Economic

Optimization of the del mix design, acceleration of the production cycle, reduction of scrap.

Performance

Improvement of the performance characteristics of the finished elements, according to the European Standards EN 1338, EN 1339, EN 1340.

Aesthetics

Superior surface finish and enhanced color brilliancy.

Durability

Improved resistance to freeze-thaw and to abrasion.

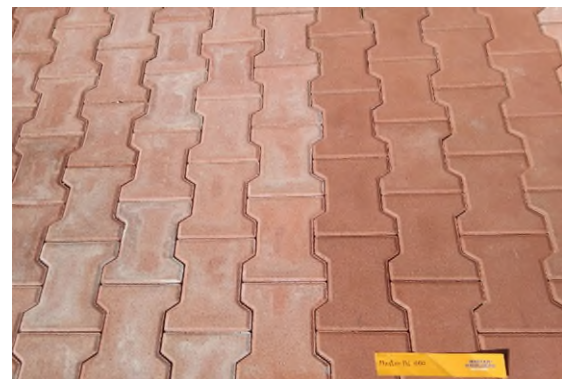
Fields of application

MasterPel SP 400I is recommended for the treatment of concrete block paving and of any other type of elements made of dry and semi-dry consistency concrete, that are compacted by vibro-compression and immediately demolded.

Features and benefits

MasterPel SP 400I offers the following advantages:

- Hydro-repellency.
- Protection against the formation of efflorescence .
- Increased and longer-lasting color brilliancy.
- Glossy aspect, increasing with dosage.



Dosage

The recommended dosages of MasterPel SP 400I are in the range 80-200 g/m². Different dosages may be applied in specific cases, depending on the application and use destination, on the basis of preliminary trials.

Master Builders Solutions Technical Services experts are available for further information and for technical support.

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Preliminary Industrial trials are recommended, in order to define the optimal dosage.

Packaging and storage

MasterPel SP 400I is available in 10 liters canisters, 208 liters drums and in 1000 L tanks.

It is recommended to keep the material in the original containers and to store the product at temperatures between +4°C and +40°C. Avoid direct exposure to sunlight.

Failure to comply with these indications may result in premature degradation of the product or packaging.

If stored in closed original containers, the product has a shelf life of 6 months.

Technical information	
Aspect	Milky
Density (g/ml @ 20°C)	1.03 – 1.07

Application datasheet

Application

MasterPel SP 400I is a liquid product and can be either sprayed or rolled on the surface of fresh elements, immediately after stripping.

In order to achieve optimal results, it is important to make sure that MasterPel SP 400I is evenly distributed on the surface of the elements.

Complete solution for MCP

For the production of paving stones and flags of superior quality, it is recommended to combine the surface application of MasterPel SP 400I with the employ of the following admixtures in the mass of the fresh concrete mix:

- MasterCast 402 to improve the *compactability* and increase the splitting tensile strengths (according to EN1338).
- MasterPel 793 for the reduction of the water absorption of the elements (according to EN1338) and to prevent the formation of efflorescence.

For any recommendation on the compatibility with other chemical products and building materials, please ask Master Builders Solutions personnel.

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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