

MasterCast[®] 3936

Key component of the 4 VALUES technology
Impregnation agent for paving stones and other manufactured concrete products (MCP), that provides long-lasting protection of the surface against water, oil and different types of dirt

DESCRIPTION

MasterCast 3936 is an impregnation agent that has been specifically developed for the application on dry and semidry concrete elements: paving stones, flags, etc.

The surface that has been treated with **MasterCast 3936** is water- and oil-repellent and additionally repels many types of dirt, from ketchup and mayonnaise, wine and so on. **MasterCast 3936** improves the color brilliancy and allows for better stability of the color over the time.

MasterCast 3936 can be sprayed or rolled on the surface of manufactures concrete products immediately after their compaction and stripping. Once applied, the product doesn't require any special drying or curing treatment: the elements can be transferred directly to the chamber for curing, as it is normally done.

By associating to the application of **MasterCast 3936** also the employ of the **MasterCast** series of mass admixtures, it is possible to obtain a TOTAL PROTECTION of the elements: not only the surface is protected, but also the whole body of concrete, thereby assuring improved surface aesthetics in use and minimized efflorescence.

4 VALUES:

The 4 VALUE concept is based on the 4 values that are important to the producers of Manufactured Concrete Products (MCP):

ECONOMY

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

PERFORMANCE

Performance improvement of the finite elements, particularly of the splitting tensile strength, according to the requirements of the European standards (EN 1338, EN 1339, EN 1340 etc).

AESTHETICS

Better surface texture and improved color brilliancy.

DURABILITY

Better resistance to freeze-thaw cycles and higher abrasion resistance.

TYPICAL APPLICATIONS

MasterCast 3936 is suitable for the surface treatment of paving stones and any other type of Manufactured Concrete products, i.e. elements made with dry or semi-dry concrete and compacted by vibration or vibro-compression.

ADVANTAGES

MasterCast 3936 offers the following benefits:

- Water-repellency
- Oil-repellency
- Resistance to the penetration of different types of dirt (ketchup, mayonnaise, etc)
- Easy cleaning with water of the surface, after dirt attack
- Improved color brilliancy
- Superior resistance of the surface from color fading
- Improved resistance to efflorescence

PACKAGING

MasterCast 3936 is supplied in 18 L and 200 L drums.

TYPICAL PROPERTIES*

Appearance	Milky white liquid
pH-value	7.5
Solid content	Approx. 38%

MasterCast® 3936

APPLICATION GUIDELINES

MasterCast 3936 is a liquid product and has been sprayed or rolled on the surface of the fresh elements, immediately after their compaction and stripping.

To achieve optimal results, it is very important to ensure that the spraying system allows a homogeneous and even distribution of **MasterCast 3936** on the surface of the elements.

Please, ask Master Builders Solutions Technical Services for advice on suitable application systems.

The surface protection can be partially lost over the time, mainly due to abrasion; it is recommended to apply **MasterCast 3936** again, to renew the protection effect.

DOSAGE RATE

The usual recommended dosage for **MasterCast 3936** is 80-150 g/m² of surface. Different dosages can be used in special cases, depending on the specific conditions of use, based on preliminary tests. The Technical Service of Master Builders Solutions is available with more information and technical support. Production tests should always be carried out to determine the optimal dose and effect.

TOTAL PROTECTION

To produce pavers or flags with superior quality, it is recommended, beside the surface application of **MasterCast 3936**, to employ the following products in the mass of concrete:

- **MasterCast** for improved **compactability** and higher splitting tensile strength (according to EN1338).
- **MasterCast** for the reduction of water absorption (according to EN1338) and the minimization of efflorescence.

- For any recommendation around compatibility with other chemicals or building materials, it is recommended to consult Master Builders Solutions Technical Advisor.

STORAGE AND SHELF LIFE

Storage conditions: store in original containers and at temperatures between +5 °C and +40 °C. Keep in the container out of the reach of direct sunlight and protect against extreme temperatures.

The shelf life is 12 months when stored as above.

Failure to observe the recommended storage conditions may lead to premature damage to the product or package.

HEALTH AND SAFETY

The product is not labelled and when professionally used, has no adverse effects on health. When handling the chemical, please observe normal safety precautions.

First aid instructions, safety instructions and instructions for removing the substance and packages are given in the material safety data sheet.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

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