

MasterTile SL 810

Self-levelling cement-based mortar with quick setting and drying, compensated shrinkage, for plastering indoor cement substrates with thickness from 3 to 15 mm.

MATERIAL DESCRIPTION

MasterTile SL 810 is a premixed, cement-based mortar, grey in colour, with quick setting, drying and curing, compensated shrinkage used for plastering indoor cement substrates. Thickness 3-15 mm. Casting application.



MAIN FIELDS OF APPLICATION

MasterTile SL 810 has been designed for plastering cement substrates to be prepared for laying of floorings in ceramics, parquet, carpets, resins, etc.

Suitable for indoor laying in premises with intense traffic, both for civil, commercial and/or public use. Proves to be walkable 3 hours after laying.

It ensures an excellent adhesion on the following substrates:

- Screeds
- Cement surfaces
- Concrete, prefabricated or cast surfaces
- Old ceramic flooring (after abrasion and laying MasterEmaco P110)
- Sanded asphalt.

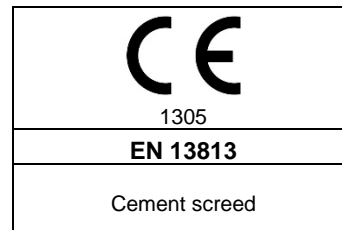
FEATURES AND BENEFITS

MasterTile SL 810 is a premixed, self-levelling cement-based mortar, grey in colour, with quick setting, drying and curing, compensated shrinkage, for indoor floors, with the possibility to provide a thickness up to 15 mm. If you want to realize a screed with thickness from 15 to 25 mm, it is necessary to mix 2 parts of MasterTile SL 810 with 1 part

of dry siliceous sand with granulometry from 0 to 4 mm. MasterTile SL 810 meets the performance requirements required by European Standard EN 13813 as cement screed **CT - C35 - F8 - Ffl**.



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 13813 and the relative DoP (Declaration of Performance).



CONSUMPTION

The average consumption is 1.8 kg/m² per 1 mm thick.

PACKAGING

25 kg paper bag.

STORAGE

Store the product in a dry and sheltered place at a temperature anywhere between 5 and +35°C.

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Technical Information		
Granulometry		≤ 0,6 mm
Density of the hardened product		1,95kg/lt
Mix water		20.8%
Mixture's rest period		5 minutes
Fluidity		145 mm. EN 12706
Workability time		20 min
Walkability		after 3 hours
Can be covered with ceramic		after 12 hours
Can be covered with natural stone		after 12 hours
Can be covered with parquet, rubber, linoleum, carpet		after 24 hours
Minimum thickness of application		3 mm
Maximum thickness of application		15 mm
Temperature of application		From 5°C to 35°C
Packaging		25 kg.bag
Consumption		1.8 kg/m ² per 1 mm thick.
Essential characteristic with a dosage of water of 20.8%		Performances
Compressive strength at 24h	EN 13892-2	≥ 15.0 MPa
Flexural strength at 24h	EN 13892-2	≥ 4.0 MPa
Compressive strength at 3 days	EN 13892-2	≥ 20.0 MPa
Flexural strength at 3 days	EN 13892-2	≥ 5.5 MPa
Compressive strength at 7 days	EN 13892-2	≥ 25.0 MPa
Flexural strength at 7 days,	EN 13892-2	≥ 5.0 MPa
Compressive strength at 28 days,	EN 13892-2	≥ 35.0 MPa
Flexural strength at 28 days,	EN 13892-2	≥ 8.0 MPa
Thermal conductivity	EN 1745	2.10 W/mK
Adhesion on CLS	EN 13892-8	1.5 MPa
Reaction to fire	EN 13501-1	Ffl

APPLICATION SHEET

SUBSTRATE PREPARATION

MasterTile SL 810 must be applied on consisting surfaces, which do not contain detaching or inconsistent areas, clean and dry, devoid of any substance which might affect the adhesion. If detaching or inconsistent areas are present, it is necessary to mechanically remove them, subsequently cleaning the support from residues and dust. For not aged surfaces, make sure that the drying and shrinkage phase is complete.

If the substrate is very absorbent, it is necessary to wet it 24 hours before application, or alternatively, treat it preventively with MasterEmaco P110.

On existing ceramic floorings, sand to scrape off the surface, remove dust and apply one coat of MasterFlow 150.

MIXING

Do not start mixing MasterTile SL 810 if the environmental temperature or the temperature of the substrate is lower than +5°C or higher than +35°C and if temperatures around 0°C or even lower are foreseen 24 hours after the application.

Mix with a low speed mixer.

MasterTile SL 810 must be mixed with about 5.2 liters of clean water per 25 kg up to obtain a fluid, homogeneous mixture free of lumps. Do not exceed with water in order to avoid segregation of the product once applied and in order not to compromise the final performance.

After mixing let the mixture rest for 5 minutes, then stir briefly and use.

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APPLICATION

For the installation it is important to consider that the levelling capability and the workability of the product may be compromised by excessive ventilation, high temperatures or by a substrate too hot.

Pour MasterTile SL 810 on the substrate and lay it with a rubber knife to zero in order to fill the pores of the substrate, then you can reach the desired thickness taking into account that the maximum thickness of application is 15 mm. After, facilitate the output of bubbles with bubble-buster roller.

If you want to realize a screed with thickness from 15 to 25 mm, it is necessary to mix 2 parts of MasterTile SL 810 with 1 part of dry siliceous sand with a granulometry from 0 to 4 mm, taking into account the fact that the resulting mortar is not self-levelling but has a fluid consistency and must be applied with a straight edge.

CURING

Prepare the application by avoiding ventilation and direct exposure to sun during the steps of laying and drying.

WARNINGS

- Do not apply at temperatures below +5°C and higher than +35°C.
- Do not apply on crumbly, inconsistent or degraded substrates.
- Do not apply on metal surfaces, on tiles without suitable preparation, vinyl flooring, linoleum, wood, rubber, non-sandblasted asphalt, thin epoxy, polyurethane, acrylic coatings.
- Do not apply outdoor and on substrates subject to rising humidity.
- Do not apply on concrete screed in anhydrite if not previously treated with MasterEmaco P110.
- Do not exceed the dosage of water recommended.
- Do not apply in thickness of less than 3 mm.
- Do not apply on heating support without having shut-down the plants 24 hours before.

- Observe the expansion or fractionation joints present in screed or in the panels.
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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 price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website www.master-builders-solutions.com/it-it or contact infomac@mbcc-group.com.

Scan the QR code to visit the product page and download the latest version of this datasheet.



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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.

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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.