

MasterSeal[®] 513

Cement based osmotic mortar / waterproof coating

DESCRIPTION

MasterSeal 513 is a single component, polymer-modified, cement-based osmotic mortar waterproof coating for concrete and masonry substrates which requires on-site mixing of water.

TYPICAL APPLICATIONS

- Building façade applications
- Lift-pits
- Wet area applications such as toilet, bath, kitchen, balconies, etc.
- Waterproofing mortar for sandwiched concrete

ADVANTAGES

- Ideal for block work treatments. Thick consistency allows itself to be used as a surface levelling compound for slightly undulated surface prior to its main coating application.
- Waterproof but with high water vapor transmission, allowing the structure to breathe.
- Can be applied / finished by trowel to receive proprietary coatings.

PACKAGING AND COLORS

MasterSeal 513 is supplied in 25 kg unit and available in grey.

TYPICAL PROPERTIES*

| | |
|--------------------------------------------------------------------|------------------------------------------------|
| Mixed density at 25°C | 1.7 kg/L |
| Pot life | >30 min |
| pH value | >12 |
| Recoating time | After 1h |
| Compressive strength BS EN 12190 7 days 28 days | >20 N/mm ² >30 N/mm ² |
| Flexural strength EN 196-1 7 days 28 days | >4 N/mm ² >7 N/mm ² |
| Bond strength EN 1542 28 days | >1 N/mm ² |
| Water absorption coefficient EN 1062-3:2008 | <0.5 kg/(m ² .h ^{0.5}) |
| Water vapour permeability EN ISO 7783-1 | <1 S _d (m) |
| Water permeability EN 14891:2017 (Hydrostatic pressure test) | 100 (1 bar) Kpa |
| Water vapor transmission ASTM E96 / E96M-16 | >2 perms |

APPLICATION GUIDELINES

SURFACE PREPARATION

The surface to be coated must be clean and sound. Remove all traces of formwork, release agents, previous coatings, laitance, organic growth and any other contaminants that may affect the bond adversely.

Suitable cleaning methods include ultra-high-pressure water jetting, grit blasting and grinding. Aggressive percussive methods such as scabbling or scarifying are not recommended unless followed by grit blasting, wire bushing or high-pressure water jetting.

After the above treatment, surfaces must be thoroughly rinsed with clean water to remove all dust and loose particles.

Tire rod holes and large surface defects must be cut out and filled solid with **MasterSeal 590** or one of the **MasterEmaco** range of repair material.

Dampen substrate prior to application of **MasterSeal 513**.

MIXING

Pour 5.0L of potable water into a clean container and gradually add **MasterSeal 513** while mixing.

Pour another 1.5L of potable water and continue mixing until a uniform and lump-free consistency is achieved.

Mix only sufficient **MasterSeal 513** that can be used in 30 minutes.

Do not overmix to avoid air entrapment.

APPLICATION

Apply **MasterSeal 513** using brush or trowel in two minimum coats.

Press the initial coat firmly against the surface to ensure filling of any voids, holes, cracks or cavities and to ensure good coating adhesion.

Allow initial coat to sufficiently dry, prior to subsequent coating application. (Approx. 1 hour).

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COVERAGE / YIELD

Approx. 1.7 kg / m² / coat @ 1 mm thickness (2 layers recommended). An additional 0.5 kg/m² is required when embedding Master Builders Solutions approved mesh. Yield Approx. 18.5 L / 25 kg unit.

STORAGE AND SHELF LIFE

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an airconditioned environment. Shelf life is 12 months when stored as above.

HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which may also be tainted with vapour until product is fully cured). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Reseal containers after use. For further information refer to 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.

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STATEMENT OF RESPONSIBILITY

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NOTE

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