

MasterEmaco N 304

Cementitious repair mortar for non-structural cosmetic repairs

MATERIAL DESCRIPTION

MasterEmaco N 304 is a fine aggregate and binder combination with grading and chemical additives to allow for superior trowelability and finish.

TYPICAL USES

MasterEmaco N 304 is ideal for restoration of honeycombed, spalled or otherwise damaged concrete. It may be used for flatwork, in-situ or precast beams, columns and walls. Properly applied, **MasterEmaco N 304** provides a watertight plaster coat and crack or ferrule hole caulking for reservoirs, channels or other water retaining structures. It may be applied for mass or thin set repairs but should be used in conjunction with **MasterCast 111** bonding agent. Consult the **MasterCast 111** data sheet for dilution information.

APPLICATION

- Remove all loose, spalled or unsound concrete or laitance and wash off all dust oil or other residue, which may interfere with bond of the patch.
- Soak concrete well to reduce “suck” but do not allow pools of water to stand when the bond-coat is applied.
- Alternatively if pre-saturation is not viable a wet to dry epoxy adhesive should be used.

EPOXY BONDING

Mix and apply **MasterBrace ADH 1414** epoxy bonding agent in accordance with the recommended procedure contained in the **MasterBrace ADH 1414** datasheet. Or alternatively:

- Prepare **MasterCast 111** bond coat as described in data sheet. Prepare the **MasterEmaco N 304** mortar by adding just sufficient water (or water **MasterCast 111** solution, in the case of a thin-set patch), to the **MasterEmaco N 304** powder to produce a good trowelable plaster.
- Brush on the bond coat and before it dries, place the **MasterEmaco N 304** mortar into position. Build up progressively for thick sections to avoid slumping, roughening intermediate coats to provide a key.
- Finish by wood float or steel trowel to either textured or smooth finish to match existing concrete. Allow the product to stiffen before a very smooth steel trowel finish is obtainable.

- Apply a suitable Master Builders Solutions curing compound to unmodified patches, and simply protect from direct heat and wind for 24 hours, in the case of modified patches.

LIMITATIONS

Do not use **MasterCast 111** modified mortar where constant immersion or very high humidity (90°C+) conditions will prevail before the **MasterCast 111** has air-cured (two to three days).

ESTIMATED DATA

5mm thick	10 kg/m ²
10mm thick	20 kg/m ²
15mm thick	30 kg/m ²

TYPICAL PROPERTIES *

Colour	Standard Grey or Stadium Grey
Wet Density	2200 kg/m ³
Compressive strength	3 days – 25MPa 28 days - >45MPa

STRENGTH

In normal temperature (20°C) **MasterEmaco N 304** in a plaster consistency will reach 25 MPa in three days and over 45 MPa at 28 days. Consult Master Builders Solutions Technical Services for alternative bonding with **MasterBrace ADH 1414** wet to dry epoxy bonding.

PACKAGING

20kg polylined bags – yield 10 litres (depending on water added).

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STORAGE

Store under cover, out of direct sunlight and protect from extremes of temperatures.

Shelf life:

12 months from date of manufacture.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Master Builders Solutions Technical Services Department.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

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All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

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