

Technical information

Self-levelling
flooring compound
PRODUCT DATA SHEET

Blue Circle **MASTERLAY** Self-levelling flooring compound

DESCRIPTION

MASTERLAY is a Portland cement based smoothing and levelling compound for levelling uneven internal floors. MASTERLAY is a blend of cements, fine silica sand and additives designed to improve the application and setting properties of the material.

USES

MASTERLAY is designed for use on areas of uneven, sound concrete flooring prior to the installation of new floor coverings.

SPECIAL PROPERTIES

- Cost-effective, high-performance floor levelling compound
- Low dust formulation
- Ready to receive pedestrian traffic after 2 - 4 hours
- Can be laid between 3 and 35mm
- Tiles and carpets can be laid after 48 hours.

STORAGE

As Blue Circle MASTERLAY readily absorbs moisture and carbon dioxide it should be stored in a cool, dry, draught-free building. Packs should be stored flat, clear of the ground and away from walls to avoid the possibility of condensation. This product should be stored in unopened bags and should be stacked in a safe and stable manner.

PREPARATION

Proper surface preparation is vital to ensure the successful application and durable performance of MASTERLAY. Substrates should be hard, sound and free from dust, dirt, oil, grease, paint, plaster, laitance or other contaminants which could prove a barrier to adhesion. Heavily contaminated floors may require special treatment and specific advice should be sought. The substrate should be vacuum cleaned prior to application of primer. Indoor and floor slab temperatures should exceed +6°C.

MASTERLAY can be used over rigid insulation with a compressive strength >150KPa at 10% compression.

PRIMING

Substrates should be primed using an acrylic or SBR primer, installed following the manufacturer's instructions. Particularly porous or absorbent substrates may require multiple coats of primer.

MIXING INSTRUCTIONS

For best results MASTERLAY should be mixed using a mechanical mixer such as a drill & paddle. Alternatively, small volumes can be mixed by hand. Mix each 20kg bag with 4 litres of clean, cool water. Pre-measure the required volume of water into a clean mixing vessel and steadily add the powder to the water. The product should be mixed for 3 minutes until a smooth, homogeneous consistency is achieved. Do not mix more MASTERLAY than can be used and applied within 15 minutes.

APPLICATION INSTRUCTIONS

MASTERLAY can be laid to a minimum thickness of 3mm and a maximum thickness of 35mm. As with all Portland cement based materials, the setting time and strength development of MASTERLAY is affected by temperature and it is recommended that the compound is not used below 15°C in critical applications. MASTERLAY should not be used in temperatures below 5°C. Do not over trowel the compound. It is necessary to provide adequate ventilation in the work area but windows and openings must be closed sufficiently to avoid draughts during and after application.

DRYING

At 10mm thickness and 20°C the floor should be ready to receive most standard floor coverings such as tiles or carpet after 48 hours. If an impervious floor covering such as vinyl, or a moisture sensitive floor covering such as laminate / solid wooden flooring is being installed on top of MASTERLAY the relative humidity of the surface should be checked before installation and always follow the installation guidelines from the floor covering manufacturer.

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TECHNICAL PERFORMANCE

Water Addition	4 Litres per 20kg
Pot life	30 mins at 20° C
Initial flow	300mm-360mm
Yield	2.75m ² @ 4mm

	Compressive Strength	Flexural Strength
1 day	5 N/mm ²	2.5 N/mm ²
7 days	9 N/mm ²	3 N/mm ²
28 days	12 N/mm ²	4 N/mm ²

The above figures are derived from laboratory testing at 20°C and at a WSR of 0.2 (4 litres per 20kg bag).

STANDARDS

The installation of MASTERLAY should be completed in accordance with the relevant sections of the Codes of practice BS 8203, BS 8204 and BS 5325.

QUALITY CONTROL

All Tarmac products are factory blended, tested and packaged to quality control procedure in accordance with BS EN ISO 9001.

CLEAN UP AND SPILLAGES

Dry powders should be swept up and disposed of in accordance with the Local Authority.

PACKAGING AND STORAGE

MASTERLAY is available in nominal 25kg plastic bags, palletised and shrink-wrapped.

Palletised MASTERLAY should be stored in cool dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high. The product should be used on a first in – first out basis. Individual bags of MASTERLAY should be stored in sealed original packaging in a dry location at temperatures between 5°C and 30°C. Avoid exposure to water, frost or heat - high temperatures and high humidity will lead to a reduced shelf life. Shelf life is 9 months from the date of manufacture subject to temperature and humidity.

HEALTH AND SAFETY

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products. Contains Portland Cement. Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before reuse. R38 - Irritating to skin. R41 - Risk to serious damage to eyes. S26 - In case of contact with eyes, rinse immediately with water and seek medical advice. S37/39 - Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children.

TECHNICAL SUPPORT

Further information and advice on this product and the full range of Tarmac Cement products can be obtained through the contact listed below.



Tarmac Cement & Lime Ltd
 Ground Floor, T3
 Trinity Park, Bickenhill Lane,
 Birmingham, West Midlands B37 7ES.

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DoP No. 075-UK
EN 13813
CT-C12-F4

Cementitious Screed Material
 for internal use within buildings.

Reaction to fire: F
 Release of corrosion substances: CT
 Compressive Strength: C12
 Flexural Strength: F4

For full details of the Declaration of Performance (DoP) for this product see www.tarmac.com/dop/



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For more details contact:
customerservice@tarmac.com

The information given in this technical data sheet is based on our current knowledge and is intended to provide general notes on our products and their uses. Tarmac endeavour to ensure that the information given is accurate, but accept no liability for its use or its suitability for particular application because of the product being used by the third party without our supervision. Any existing intellectual property right must be observed.