

MasterLife WP 85

Surface applied crystalline active waterproofing coating for concrete

Material description

The MasterLife WP 85 is an active crystalline waterproofing cementitious coating, which can be used on both positive and negative side waterproofing to ensure a total and permanent solution to water migration.

The active crystalline technology forms insoluble crystals in the water bearing capillaries and pores, effectively blocking the further passage of water.

Supplied as a powder and mixed to a slurry consistency with water, MasterLife WP 85 is applied directly to concrete or cement renders in areas where general waterproofing is required. It also protects concrete and reinforcement against corrosive waterborne substances and aggressive ground conditions.

Areas of application

- Pie caps and ground beams
- Basements
- Tunnels
- Inspection pits
- Retaining walls
- Lift shafts
- Construction joints
- Water retaining structures
- Dry pack and void repair

Surface Preparation

In common with all surface treatments to concrete, the quality of substrate preparation directly affects the performance of the system. Surfaces to be treated must be free from dust, oil, grease, paint, residual curing compounds, mould oil or any previous surface treatment.

Remove any laitance to open the capillaries and pores of the concrete to provide a slightly rough surface, sufficient to act as a mechanical key for the application of MasterLife WP 85. Areas of weak or honeycombed concrete must be repaired.

Surfaces should be saturated for a period of 24 hours before first application. Crystalline development will usually extend to the depth of water penetration.

Mixing

Always add MasterLife WP 85 powder to water – not in reverse order. Mix 10 litres of water to 25kg of MasterLife WP 85. (2 parts water to 5 parts powder).

Use a low speed mechanical mixer to prevent lumps. Mix only sufficient MasterLife WP 85 that can be used in 20 minutes..

Application

MasterLife WP 85 is applied by brush or spray onto the dampened substrate. Apply the material in 2 coats (1 mm per coat) at right angles, the second coat whilst the first is firm, but 'green' – usually 3-4 hours after the first coat (dependant on temperature).

For structural repair including dry pack and void repair, please speak to your Master Builders Solutions technical representative.

Curing

The MasterLife WP 85 must be prevented from drying out too rapidly. Under normal conditions mist spraying with water and covering with polythene is effective when drying out would otherwise take place. Curing compounds are unsuitable for use with MasterLife WP 85 system technology.

Tanks and other water retaining structures may be filled 24 hours after final MasterLife WP 85 application as crystal growth is accelerated by water pressure.

Coverage

Two coat slurry application: 1 kg, per m², per coat.

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Product Data	
Appearance:	Grey powder
Water/ powder ratio, by weight	0.40
Mixed density	2.0 kg/litre
Application Temperature	5 to 35 °C.
Re-coatable	2 – 4 hours @ 20°C
Open to foot traffic	24 hours @ 20°C
Logistics	
Shelf life:	12 months from Batch Date if stored according to manufacturer's instructions in unopened container.
Storage conditions:	Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Handling and transportation:	Refer to MasterLife WP 85 Safety Data Sheet
Disposal:	Refer to MasterLife WP 85 Safety Data Sheet

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DISCLAIMER

MasterLife WP 85, Master Builders Solutions UK Ltd, Version 1

The following general comments apply to all products.

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 the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Health and Safety: *For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

Spillage: Chemical products can cause damage; clean spillage immediately.

DISCLAIMER:

"Master Builders Solutions UK Ltd" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use. Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application. Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.