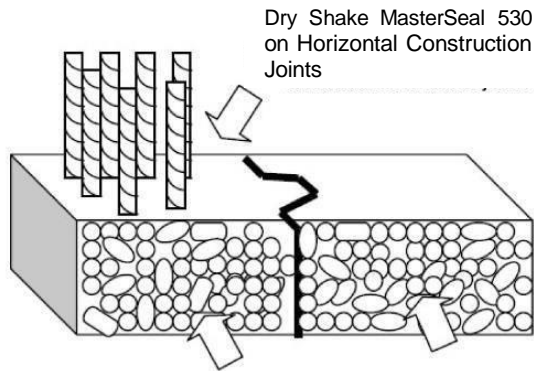


MasterSeal® 530

Fast curing surface applied capillary waterproofer for concrete and mortar

DESCRIPTION

MasterSeal 530 fast curing consists of a blend of moisture-activated chemicals, high-grade silica aggregates and selected cements. It waterproofs through the formation and development of crystals in water bearing capillaries and interstices, effectively blocks the further passage of water and ensures permanent water tightness of the structure.



MasterSeal 530 application on vertical construction and day work joints.

RECOMMENDED USES

MasterSeal 530 is recommended for areas such as:

- Static construction joints (new construction)
- Water tanks and towers, reservoirs, dams, canals
- Water treatment works, harbours
- Concrete pipes, sumps, foundations
- Retaining walls, lift shafts
- Sea defence walls, bridge decks, jetties, pontoons
- Fast curing membrane for internal wet area refurbishment

FEATURES AND BENEFITS

- **Forms crystals in concrete pores** - Waterproofs by becoming an integral part of the structure. Active ingredients will not delaminate, peel off or wear away.

- **Vapour permeable** - Allows surface to breathe, preventing build up of vapour pressure.
- **Brushable consistency** - Easy to apply by brush or spray.
- **Unrestricted application** - Effective against both positive and negative water pressure.
- **One component** - Economical to use.

PROPERTIES

Pull off bond strength	1.7 N/mm ²
Supply form	Powder
Colour	Grey
Density (Mixed)	2.02 kg/lt
Setting time @ 30°C	
Initial	15 min (approx.)
Final	50 min (approx.)
Application Temperature	> 5°C
Toxicity	Non toxic

APPLICATION

New Construction:

MasterSeal 530 can be applied immediately after the formwork has been removed, as the water curing process required for **MasterSeal 530** will also ensure full hydration of the concrete. If treatment is to be exposed and an aesthetically pleasing finish is required, the **MasterSeal 530**, after curing, should receive a sand / cement render onto which the desired finish is applied.

Existing structures:

Structures subject to water leakage or ingress must be carefully inspected to determine the cause. Any water present should be diverted away so that a thorough survey can be conducted. Static cracks over 1mm must be chased out, dampened down and repaired with an **MasterEmaco** repair mortar. Dynamic cracks must be formed into watertight movement joints and sealed, using **MasterSeal 470** elastomeric sealant.

MasterSeal[®] 530

The rate and penetration of crystalline development will vary with the density and surface absorption of the concrete.

In powder form, the product may be used as a dry shake on horizontal construction joints. .

Surface Preparation:

Surfaces to be treated must be free from dust, oil, grease, paint, residual curing compound, mould oil or any previous surface treatment that will impair adhesion of **MasterSeal 530** treatment or inhibit penetration of the chemicals into the surface. These include polymer modified renders and those substrates treated with silicon or silane water repellents. Areas of weak or honeycombed concrete must be repaired. Hollow de-bonded renders must be removed and made good. Surfaces to be treated that are not damp must be pre-wetted and still be damp at the time of application.

Mixing:

Mechanical mixing is necessary. Mix 25kg of **MasterSeal 530** with 7 to 8L of water using a slow speed (600rpm), heavy duty electric drill fitted with a grout stirrer.

When the mixer is running, add clean mixing water to the **MasterSeal 530** powder to achieve the consistency required. Mix for at least 3 minutes to get a lump-free, homogeneous and creamy consistency. If applying to vertical surfaces, water may have to be reduced to achieve the desired consistency to minimise the run off on the surface. Do not add additional water after initial mixing.

Placing:

MasterSeal 530 mixes are applied by brush or spray onto the dampened substrate. Apply the material in 2 coats at right angles, the second coat whilst the first is firm, but 'green' – usually 1- 3

hours after first coat (dependant on temperature).

Plugging leaks:

Leaks and holes drilled to relieve water pressure can be sealed permanently using **MasterSeal 590**. Slow drying of **MasterSeal 530** membrane ensures homogeneous curing and high waterproofing characteristics. **MasterSeal 530** must be protected against rapid drying due to high temperatures or wind. Cure by wet burlap, plastic sheet or mist spraying. Curing compounds are unsuitable for use with **MasterSeal 530** system technology. Tanks and other water retaining structures may be filled 24 hours after final **MasterSeal 530** application as crystal growth is accelerated by water pressure.

ESTIMATING DATA

The recommended coverage of **MasterSeal 530** per coat is:

By brush : 1 – 1.5 kg/m²

By trowel: 2 – 2.5 kg/m²

Actual consumption depends on the porosity and surface profile of the substrate and wastage.

PACKAGING

MasterSeal 530 is available in 25kg bags.

SHELF LIFE

MasterSeal 530 has a shelf life of 12 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the Master Builders Solutions Material Safety Data Sheet (MSDS) from our office or our website.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by commonwealth or State legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided, does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions are responsible for carrying out procedures appropriate to a specific application.

Master Builders Solutions Hong Kong Limited
 Unit 2, 20/F, EW International Tower, 120-124 Texaco
 Road, Tsuen Wan, New Territories, Hong Kong.

Tel: (852) 2408 4400
 Fax: (852) 2408 4401