

MasterSeal[®] 521

Polymer modified cementitious, durable, waterproof coating

DESCRIPTION OF PRODUCT

MasterSeal 521 is a two-component, acrylic modified, cementitious coating that requires only on-site mixing to form the ideal product to provide a durable, waterproof coating to re-surface concrete, masonry, and most other construction materials. **MasterSeal 521** imparts the natural concrete appearance.

MasterSeal 521 provides an effective barrier to water-borne salts and atmospheric gases.

MasterSeal 521 is designed for application by brush or spray; however for filling larger depressions, it can be mixed to stiffer consistency and applied by trowel.

TYPICAL APPLICATIONS

- To re-face and even out variations in concrete surfaces
- As a waterproof coating for water-retaining structures like water tanks, pools, etc.
- To provide foundation protection
- As a backing to marble and granite to prevent water ingress, and thus alleviate surface staining
- To provide protection to concrete surfaces from carbonation and chloride attack
- For use on pedestrian walkways in marine areas

ADVANTAGES

- Excellent adhesion – bonds to porous and non-porous surfaces
- Limited flexibility
- Suitable for light pedestrian traffic
- Breathable – whilst repelling water, allows substrate to breathe
- Slurry or trowelable consistency; application is still possible by spray
- Unlike conventional coatings, which require a 7-28 day cure of concrete,

MasterSeal 521 can be applied to 24 hour-old concrete, thereby giving immediate protection

PACKAGING

MasterSeal 521 is available in 20kg double pack (15kg powder+5kg liquid).

COLOURS

MasterSeal 521 is available in light grey and white

COMPOSITION

MasterSeal 521 is composed of specially selected cements, silica sand and reactive fillers supplied in powder form together with a liquid component of blended acrylic copolymers and wetting agents.

TYPICAL PROPERTIES

Density:	Approx. 2000 kg/m ³
Positive Pressure	Up to 1.0 Bar

CHEMICAL RESISTANCE

MasterSeal 521 has outstanding wear resistance and waterproofing.

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APPLICATION PROCEDURE SURFACE PREPARATION:

As with all coating systems, surface preparation is of prime importance. Remove all grease, oil, dust and residual curing compound, mould release agent or other contaminant that could impair adhesion. Laitance should preferably be removed by light sweep blasting or hydro jetting. Mechanical wire brushing may be appropriate for small areas.

Spalled concrete should be cut back to sound concrete and made good with a suitable cementitious repair mortar, such as MasterEmaco 488. Conventional concrete curing compounds should be removed before application. The exception to this is when MasterKure 101 has been used.

MIXING:

MasterSeal 521 is supplied in pre-measured units and should be mixed on site utilising clean containers. Slowly add the powder to the liquid and mix, using a slow speed drill fitted with a suitable paddle. MIX AND USE. Do not mix more material than can be used in one hour.

NOTE: Although **MasterSeal 521** is supplied in pre-measured packs, part packs can be used by mixing 4.5 parts of powder to 1 part of liquid by weight; mix thoroughly and keep mixed during application.

DO NOT RE-TEMPER WITH WATER.

APPLICATION

Do not apply to dry concrete. Saturate concrete surfaces with clean water whilst still visibly damp, but free of standing water. Apply, using a short, stiff bristle brush or roller. Trowel application can be undertaken as necessary. For heavy 6-10mm depressions, honeycombs, etc., use less gauging liquid and mix to the desired consistency. Where more than one coat is found necessary to achieve the desired thickness, apply the second or subsequent coats after the previous coat has dried.

Spray application is recommended for large areas; details of suitable equipment can be provided by Master Builders Solutions's Technical Services Department.

COVERAGE

0.75-0.9kg/m²/coat, depending on the substrate roughness. (Minimum 2 coats are required).

STORAGE

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. For specific storage advice, consult Master Builders Solutions's Technical Services Department.

SHELF LIFE

Up to 12 months if stored according to manufacturer's instructions in unopened containers.

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SAFETY PRECAUTIONS

As with all chemical products, care should be taken, during use and storage, to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY STATEMENT

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world- wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

* Properties listed are based on laboratory controlled tests.

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