

MasterSeal[®] 570

Elastomeric acrylic reinforced cementitious waterproof coating

DESCRIPTION

MasterSeal 570 is a two component elastomeric acrylic modified cementitious coating that requires only on site mixing to form the ideal product to waterproof and resurface concrete, masonry, and most other construction materials.

Simply applied by stiff brush, roller, or trowel, it forms a waterproof, flexible coating.

MasterSeal 570 provides an effective barrier to waterborne salts and atmospheric gases.

Fluid applied, **MasterSeal 570** provides a hard wearing, seamless, waterproof membrane for roofs and foundation protection.

TYPICAL APPLICATIONS

- To reface and even out variations in concrete surfaces.
- As a waterproof lining for water retaining structures.
- For coating seawater channels.
- Sealing and coating tie bar holes to ensure watertightness.
- For waterproofing and protection against brackish water.
- To provide foundation protection.
- As a waterproof coating for roofs.
- 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.

PACKAGING

MasterSeal 570 is available in 23kg packs.

MasterSeal 570 is available in Natural Cement Grey colour.

ADVANTAGES

- Waterproof
- Excellent adhesion. Bonds to porous and non-porous surfaces.
- Flexible.
- Non toxic suitable for contact with potable water.
- Suitable for light pedestrian traffic.
- Breathable - whilst repelling water, allows substrate to breathe.
- High resistance to chloride ion diffusion.
- Unlike conventional coatings which require a 7-28 day cure of concrete, **MasterSeal 570** can be applied to 24 hour-old concrete thereby giving immediate protection.

COMPOSITION

MasterSeal 570 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	1890kg/m ³
Depth of water penetration BS 12390 Part 8 : 2009	>5mm
Static crack bridging BS 1062 Part 7 Method A	>2.5mm
Carbon dioxide diffusion	SD >50m Complies with Specification BS 1062-1 : 2004 Classification Cl. 5.8 table 7, Class C
Liquid water permeability	<0.1kg/(m ² xh ^{0.5}) Complies with Specification BS 1062-1 : 2004 Classification Cl. 5.6 table 5, Class W ₃ (low)
Pull off strength BS 1542	>0.5N/mm ²

STANDARDS

BS 6920 : 2000 - Suitable for use in contact with potable water.

MasterSeal[®] 570

CHLORIDE ION DIFFUSIVITY

MasterSeal 570 provides an effective barrier to waterborne salts such as chlorides and sulphates. independent assessment has shown that even after 12 months constant immersion the chloride ion diffusion co-efficient could not be measured for **MasterSeal 570**.

CHEMICAL RESISTANCE

MasterSeal 570 has outstanding wear and weather resistance and good resistance to sodium hydroxide, calcium chloride, de-icing salts. **MasterSeal 570** coated surfaces exhibit good resistance to mild acids.

ANTI CARBONATION COATING

MasterSeal 570 is an extremely effective barrier to atmospheric acidic gases which cause carbonation in concrete structures.

APPLICATION PROCEDURE

Surface preparation:

As with all coating systems, surface preparation is of prime importance. Remove all grease, oil, dust, 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 S 488**. Conventional concrete curing compounds should be removed before application. The exception to this is when **MasterKure 181** has been used. Roofing tiles should be firmly bedded and grouted before application.

MIXING

MasterSeal 570 is supplied in premeasured 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 570** is supplied in premeasured packs, part packs can be used by mixing 2 volumes of powder to 1 volume of liquid. 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.

It is recommended, for general resurfacing, that each coat should be a minimum of 1mm thick. Spray application is recommended for large areas, details of suitable equipment can be provided by BASF's Technical Service Dept.

COVERAGE

1.890kg / m² at 1mm thickness.

SPECIFICATION CLAUSE

All exposed concrete surfaces are to be coated with MasterSeal 570 , a two component reactive polymer composite. The material shall be mixed and applied fully in accordance with the manufacturer's instructions. The cured coating shall have the following diffusion properties. Chloride ion diffusion	Not measurable after 24 months of testing
---	---

MasterSeal[®] 570

NOTES

Where subsequent tiling works are to be carried out on vertical surfaces, contact the local BASF representative for advice.

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.

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 BASF's Technical Services Department.

NOTE

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

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

QUALITY AND CARE

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the BASF-Group in many countries.

BASF_CC-UAE/SI_570_01_17/v2/02_17

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF publication are 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 law. The user 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 BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.