

MASTERSEAL® 556

Cementitious waterproof membrane system

DESCRIPTION

MASTERSEAL 556 is a two component flexible cementitious waterproof membrane ideal for use in laundries, terraces and balconies. **MASTERSEAL 556** provides toughness and tensile strength through the employment of integral fibre reinforcement. Advanced acrylic polymers combined with cements and special fine fillers achieve an excellent flexible waterproof membrane barrier particularly suited for under tiles in the above locations.

RECOMMENDED FOR

As a waterproof membrane for:

- Terraces and balconies
- Internal and external laundries
- Commercial kitchens

MASTERSEAL 556 is also suitable as a membrane below concrete, mortar and tiles:

- Bridge decks
- Laundries and kitchens
- Waste water treatment plants
- Drained Planter boxes

FEATURES AND BENEFITS

- **Waterproof**
- **UV- resistant**
- **Resistant to freezing and thawing**
- **Recommended in all climates**
- **Remains flexible even at very low temperatures**
- **Good bond to concrete, wallboard, cement sheeting, masonry, plywood and particleboard**
- **Easily applied by roller**
- **Tough and durable**
- **Good crackbridging capability**
- **Non-toxic, water based**
- **Excellent for internally tiled locations**
- **Approved AS/NZS 4020:2002 for contact with potable water**

TECHNICAL DATA

	<i>Part A</i>	<i>Part B</i>
Supply form	liquid	powder
Colour	milky white	grey
Specific gravity (+20°C)	1.04kg/L	-
Physiological effect	neutral	same as cement
Toxicity	non-toxic	same as cement
Mix ratio by weight	1	1.5
	Mixed Product	
Min. application temp.	5°C	
Specific gravity mixed	1.4kg/L	
Colour of cured material	Medium grey	

PERFORMANCE DATA (Typical)

Bonding Strength:	1.65MPa
Elongation at tear:	>100%
Crackbridging:	up to 1mm@ 20°C

* The data shown is based on controlled laboratory tests. Reasonable variations from the results can be expected in practice.

APPLICATION DIRECTIONS

Substrate preparation

The surface must be clean and sound, free of dust, loose particles, cement laitance, grease, rust, sawdust, paint and mortar droppings. Consideration should be given to shotblasting or grinding of concrete surfaces, to remove negative effects of curing compounds. All wall and flooring boards must be fixed as per manufacturers instructions. Drainage needs to be provided and locations of constant water exposure and falls in the order of 15 mm per 1m should be provided.

At connecting building parts of different materials, construction joints and cracks, wall and floor junctions, drainage outlets, door to sill on slider doors, internal and external corners, allow the **MASTERSEAL 556** to accommodate movement by filling the joint with **Sonolastic NP1** before applying the **MASTERSEAL 556**.

Priming

Apply 1 coat of **EMACO 168 Primer** to a clean substrate by roller or brush at 7 to 10 m² per litre depending on substrate. Allow **EMACO 168 Primer** to dry before application of **MASTERSEAL 556**. (Approximately 15 to 30 minutes depending on temperature and porosity of substrate)

Mixing

Leave Part A (liquid) in mixing bucket and gradually add Part B (powder) while using an electric drill/mixer equipped with a BASF Grout mixing paddle. Mix for 5 minutes and until a homogeneous and lump free consistency is achieved. Allow to stand for 5 minutes, then restir before use. Do not change mixing proportions nor add water.

Application

MASTERSEAL 556 can be applied with roller, squeegee, brush or trowel. For large areas it may be sprayed using a suitable worm type mixer/pump. Apply 1 coat of **MASTERSEAL 556** 2mm thick WFT. Apply evenly to the surface achieving a continuous film allowing to dry. Ensure the system terminates correctly under flashings if being turned up and down into the floor wastes or drainage outlets. A one coat prestripe is recommended over cracks, wall floor intersections, down into drainage wastes etc as these locations are where movement is to be expected in service.

NB. Do not apply externally if rain is anticipated within 2 hours.



The Chemical Company

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ESTIMATING DATA

The consumption of **MASTERSEAL 556** depends on substrate smoothness and requirements, however, as a guide:

Waterproofing	2litres/m ²
Yield per kit is	18 litres

Coverage of a mixed kit is 9m² based on application at 2mm WFT.

Barra Emulsion (as a Primer)

As a guide: 7-10m²/L

CURING

Curing depends on the ambient temperature, however as a guide **MASTERSEAL 556** becomes firm touch dry after 2 hours curing at 23°C. Full cure is achieved after approx. 7 days. In locations where the membrane is thick (e.g. corners) and/or applied over sealant curing will be slowed down.

Homogeneous hardening and waterproofing are only achieved when too rapid drying out is avoided. Protect fresh coats against exposure to strong wind and direct sunlight. Once dry, **MASTERSEAL 556** needs no additional after treatment and is ready for tiling over.

CLEANING

Tools should be cleaned with water before the **MASTERSEAL 556** hardens.

SHELF LIFE

When stored in the cool and dry, **MASTERSEAL 556** can be stored for 12 months in tightly closed original containers. Do not allow Part A to freeze. Once frozen, Part A becomes unusable.

PACKAGING

Available in a 25kg kit comprising:

Part A - 10kg

Part B - 15kg

PRECAUTIONS

MASTERSEAL 556 is non-toxic, but as with other products containing Portland cement, it has an alkaline nature and thus can be irritating to skin and eyes. Wear dust masks, goggles and gloves when handling. Wash off splashes of material with clean water. If irritation persists, seek medical advice. For full safety and first aid instructions, refer to the product Material Safety Data Sheet.

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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.

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