



# RM 60

## 1 COMPONENT FLEXIBLE CEMENTITIOUS MEMBRANE

### Product Overview

RM60 is a high performance 1 component flexible polymer cementitious membrane designed for a range of positive and negative waterproofing applications over concrete and masonry surfaces. Suitable for podiums, terraces, water tanks, water storage areas, basements, wet areas, cellar walls, lift pits, immersed and subterranean areas.

Based on unique polymer technology, RM60 possesses outstanding waterproofing and adhesion properties, with excellent resistance to frost, ageing, and salt water. Suitable for use over a range of building substrates, RM60 provides a unique advantage over 1 component cement based membranes as it not only forms a durable waterproof membrane but provides enhanced flexibility and excellent crack bridging properties over concrete/masonry cracks.

Suitable for waterproofing the negative face of structures where access to the positive face is not possible, e.g. basements, underground walls etc, withstanding up to 15m head of pressure on the negative face.

### Product Features

- Able to be used for both positive and negative waterproofing
- Waterproof, withstanding continuously wet and immersed environments
- Dries without cracking, low shrinkage
- 1 component, mixed on site with water, ready to use
- Flexible and good crack bridging properties
- Tested up to 6 bar water pressure (60m head of pressure); positive side; tested to 1.5 bar (15m head of pressure) on negative side.
- Withstands UV light exposure
- Can be applied by brush, roller and trowel on horizontal and vertical surfaces without sagging. Able to spray apply
- Ability to apply over damp concrete
- Potable water approved
- Easy to use and non toxic

### Typical Applications

- Basement walls, internal and external sides Lift pits
- Podiums, terraces, general external wet areas
- Water features, swimming pools
- Potable water storage facilities, retention and water tanks
- Waterproofing system over concrete blocks, brick, masonry and mortars where crystal treatments are not suitable
- Waterproofing under tiles and pavers in external areas
- Sandwich sealing between existing and new concrete toppings

### General Application Details

Substrates suitable for bonding RM60 over include:

- Concrete
- Render, screeds and general masonry surfaces
- Concrete blocks and clay brick
- Aerated concrete panels and blocks

For further information on suitable surfaces and substrates contact technical department of Total Waterproofing Supplies for correct advice on surface preparation and suitability.



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### Surface Preparation

Surfaces must be prepared thoroughly before commencing application. All substrates must be structurally sound, smooth, stable, dry, and clean.

Highly dense, smooth/shiny and steel trowel finished concrete surfaces to be roughened or etched.

Rough surfaces and voids to be evened or filled first and all brick/block surfaces to be pointed flush. All general surface defects to be repaired.

Building surfaces must be constructed to manufacturer's recommendations and relevant building standards in force at time of membrane application.

All surfaces are to be free of sharp protruding objects, loose material, de-bonded coatings, curing membranes/agents, release agents, wax residues, foreign particles, laitance, algae and moss, grime, oils, animal fats or grease remains.

Structurally unsound layers and surface contaminants are to be mechanically removed by abrasive blasting, blast tracking, grinding or equivalent methods

### Priming

RM60 must be applied onto a pre-dampened or primed surface: On porous concrete, masonry and mineral based substrates, surfaces can be pre wetted down with light water mist. When pre dampening ensure there is no ponding or surface water before membrane application. Surfaces can be damp but must not have free water present when applying membrane.

### Mixing

1. RM60 consists of a 15kg bag dry powder. Membrane is formed by mixing 2.7-3.3litres of water to 15kg of powder.
2. Add 2/3 of the required water into a clean pail/drum. Slowly add the dry powder component to the water and mix using an electric stirrer with paddle attachment, ensuring the mixing of components is continuous while the powder is added. Continue mixing to form a lump free consistency. Then slowly add the 1/3 balance of water to the mixture until it is evenly dispersed and a homogenous consistency is formed.
3. Allow the mix to settle for 2-3 minutes then lightly re-stir before use. Pot life once mixed is 45-60 minutes; however, this may be reduced in warmer weather.

### Application and Coverage

The application of RM60 is at a minimum of 2 coats. Product can be applied by trowel, roller (low texture or medium-high nap), brush (slurry masonry brush) or spray unit.

- **For general waterproofing applications** – a minimum 1.5mm dried film thickness is required
- **For immersed applications** - a minimum 2mm dried film thickness is required
- **For preventing ingress of water under pressure** - a minimum 2.5mm dried film thickness is required

**Coverage:** 1.25kg/m<sup>2</sup> per mm layer thickness

Apply subsequent coats at different directions to the previous coat. Coverage is dependent upon surface condition and will vary accordingly as uneven and porous surfaces will require greater coverage to achieve the specified film thickness.



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### Detailing

All critical areas such as joints, junctions, movement zones, penetrations drainage points and cracks are to be correctly sealed and detailed prior to membrane application.

<b>Voids, gaps and undulating surfaces in concrete/masonry</b>	Filled and evened with Gripset 11Y repair mortar compound.
<b>Static cracks up to 1mm:</b>	Filled with Total Seal 40 FC, followed by TWS reinforcement
<b>Live cracks and cracks &gt;1mm:</b>	Filled with Total Seal 40 FC followed by Elastoproof Joint Band
<b>Bond Breaker:</b>	Elastoproof Joint Band to wall/floor junctions and wall/wall junctions.
<b>Movement or Expansion Joints:</b>	Elastoproof Joint Band
<b>Penetrations, Pipes, Drain outlets:</b>	Elastoproof Collars or Total Seal 40 FC with TWS Reinforcement where collars cannot be utilised. Butyl Squares over leak control flanges

### Tiling and Surface Toppings

When tiling directly over RM60 in internal or external floor areas, polymer modified cement based adhesives must be used.

If applying a screed, render or concrete topping over RM60 it is recommended to incorporate GP 21 as a proprietary bonding agent and water resistant additive.

**Note:** All tiling is to be carried out to AS3958.1 – 2007 "A Guide To The Installation of Ceramic Tiles"

### Storage Conditions

- Best stored at room temperature.
- Avoid cold freezing conditions and off concrete floors.
- Do not store in direct sunlight.
- Shelf life: 12 months in unopened container

### Clean Up

- In water while wet.
- Once dried product needs to be removed mechanically or by solvent

### Important Notes

- Do not apply RM60 to surfaces where surface water is present, running or dripping water must be first treated with RM62
- Not to be used as a trafficable surface
- Do not apply to areas when rain is imminent
- Do not apply when surface temperature is below 5°C or above 30°C
- Not to be applied over glass or glazed surfaces
- Not to be used in areas where solvent or petroleum based products may be spilled
- All finish coatings over this membrane must be water based and solvent free
- Allow 21 days drying after final application for immersed conditions
- Exposure to water pressure, allow 7 days curing, Safety Data sheet (SDS) available
- For further information contact technical department of Total Waterproofing Supplies



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### General Technical Data

<b>Drying Times</b>	
Tack Free	15-20 minutes
Re-coat	90-120 minutes
Dry Film	4-5 hours
Tiling or Topping Over	24 hours
Exposure to Water Pressure	7 day curing
Immersion	10 days
<i>Based on normal ambient conditions of 23°C, 50% RH</i>	
<b>Physical Properties</b>	
Appearance	Grey Powder
Form	When mixed – grey viscous slurry; When dried – grey film
Mixing Ratio	2.7-3.3 litres of water per bag
Total Yield (mixed)	12 litres/18kg
Specific Gravity (mixed)	1.5kg/litre
Adhesion to Concrete	1.08MPa
Elongation	85%
Tensile Strength	1.1MPa
After 28 days immersion	0.89MPa
After freeze thaw cycle	0.74MPa
After exposure at 70 degrees Celsius	0.9MPa
After caustic potash immersion	1.09Mpa
<i>(3% solution, of 40°C)</i>	
Crack Bridging (24 hour cycle)	0.5mm
Water Pressure	1.5 bar negative pressure – 6 bar positive pressure
Water Vapour Diffusion – SD Value	1.5

### Packaging

- 15kg bag

### Contact Details

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### Product disclaimer

This Product Data Sheet (PDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Total Waterproofing Supplies does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.