

CMI® PROOFCOAT 087

Updated June'23



DESCRIPTION

CMI® Proofcoat 087 is semi-flexible 2-part acrylic modified cementitious waterproofing system. The 2 components react chemically to form a hard and elastic film which bond tenaciously to most concrete or masonry substrate to protect against possible ingress of water.

USES

Internal or external surface of wall and slab, basements, swimming pools, kitchens, toilets, terraces, balcony, planter boxes and water tanks. Suitable substrates include concrete slab, brickwork, precast concrete, and lightweight blocks.

Product Type	Product Code	Packsize	Finishing	Color	Substrate
Cementitious Waterproofing	087	29kg Set • Part A: 9 Litres • Part B: 20kg	Cementitious	Grey Slurry • White Liquid • Grey Powder	Concrete wall and slab/ plastered wall

Technical Data

Appearance	Part A – White liquid; Part B – Grey powder; Part A+B – Grey slurry
Density	1.9 – 2.0 kg/liter (wet density)
Tensile Strength	≥ 0.5 N/mm ²
Elongation at Break	> 100%
Bond Strength @ 28days	≥ 0.5 N/mm ²
Water Vapor Transmission Rate	0.82g/h.m ²
Pot Life @ 30°C	Approx. 2 hours
Recommended Thickness	1.2 – 1.5mm
Mixing Ratio	Approx. 45% on dry material

Recommended Coating & Construction System

Concrete / Block Wall

Waterproofing	: CMI® Proofcoat 087 : CMI® Proofcoat 087	: 1 coat at 1.5 kg/m ² /coat : 1 coat at 1.5 kg/m ² /coat
Plaster / Render	: CMI® Render 081 SP / 082 SP / 083 SP	: 5-10mm

Brick Wall

Plaster / Render	: CMI® Masonry Mortar 086	: 20mm
Waterproofing	: CMI® Proofcoat 087 : CMI® Proofcoat 087	: 1 coat at 1.5 kg/m ² /coat : 1 coat at 1.5 kg/m ² /coat

Concrete Floor Slab

Waterproofing	: CMI® Proofcoat 087 : CMI® Proofcoat 087	: 1 coat at 1.5 kg/m ² /coat : 1 coat at 1.5 kg/m ² /coat
Screed	: CMI® FloorScreed 085	: 15-50mm

FINISHING (SUBJECT TO DESIGN)
(i) TILE FINISHING DESIGN

Tile Adhesive	: CMI® TileGrip 185 / MultiFix 188 / TileFix 181 / Rapid Fix 183	<i>(Subject to respective class and thickness)</i>
Tiles	: as per specification	
Tile Grout	: CMI® Tile Joint Filler / TileCrete 182	: Up to 3mm joint width

(ii) INTERIOR PAINT FINISHING DESIGN

Skim Coat (Base Coat)	: CMI® Base Mortar 781 / 381	: 2-3mm
Skim Coat (Top Coat)	: CMI® Wallskim 281 / 681 / 488	: 1-2mm
Paint (Sealer/Primer)	: Nippon Paint Interior Sealer Range	: 1 coat
Paint (Finishing Coat)	: Nippon Paint Interior Finishing Range	: 2 coats

(iii) EXTERIOR PAINT FINISHING DESIGN

Skim Coat (Top Coat) - <i>Optional</i>	: CMI® Base Mortar Grey EX981	: 3-5mm
Paint (Sealer/Primer)	: Nippon Paint Exterior Sealer Range	: 1 coat
Paint (Finishing Coat)	: Nippon Paint Exterior Finishing Range	: 2 coats

Note: Kindly refer to its respective technical datasheet for more information. For other areas not specified, please consult **Nippon Paint / CMI®** Technical Representatives for more information.

Surface Preparation

All surfaces must be sound, clean and free from dirt, dust, grease, curing compound and other contaminants which will inhibit proper bonding. Ensure there is no sharp protrusion or defects on the substrates that may damage the membrane. Fill all voids, cracks, edges and angles with **CMI® Render** or suitable repair material. Damp the substrate with clean water. Do not allow water ponding. Primed with **CMI® Mortar Admix 380** prior to applying **CMI® Proofcoat 087** for very porous surface.

Mixing

Add 20 kg bag of Part B powder gradually to 9 litres Part A liquid in a clean container whilst mixing. Mix thoroughly for 3 minutes using mechanical mixer (speed 400 - 500 rpm) until a homogenous lump-free plastic consistency is achieved. Use within 2 hours. No addition of water is allowed.

Application

Apply the mixture using block brush, squeegee or roller in a stifling action. Apply minimum 2 coats in a crisscross direction. Allow the 1st coat to dry for at least 2 - 3 hours before a 2nd coat is applied. The drying time depends on the thickness, substrate porosity and the surrounding temperature.

Coverage
Approx. 1.5 g/m ² per coat.
Cleaning
Clean up equipment with water immediately after use.
Safety Precautions
<ul style="list-style-type: none"> • Wash thoroughly after handling. Do not eat, drink or smoke when using this product. • Wear protective gloves/protective clothing/eye protection/face protection. • Avoid inhaling dust during handling or mixing of products. • Use only in well-ventilated area. • In case of inadequate ventilation wear respiratory protection. In case inhaled, remove patient to fresh air and allow to rest. • In case swallowed, do not induce vomiting. Rinse mouth clear with water and drink two glasses of water. • In case contact with eye, immediately rinse with plenty of water and seek medical advice. • Remove splashes from skin by using soap or water. • Products must always be stored in a cool, dry and well-ventilated area. • When transporting products, care must be taken. For dry powder products, always keep products dry and avoid generating or accumulating dusts during handling. For liquid products, always keep container in a secure upright position. • Disposal of product should always comply with local and national regulations.
Shelf Life & Storage
Six (6) months when stored in cool and dry elevated position.
Note
<p><i>The information provided on this datasheet is not intended to be complete and is provided as general advise only. It is the user's responsibility to ensure that the product is suitable for its intended purpose. As we have no control over the treatment of the product, the standard of surface preparation, or other factors, we are not responsible for any damages or injury, including but not limited to special or consequential damages which may result from the use of our products, which includes any damages or injury caused by any failure of performance. The information contained in this datasheet may be modified by us from time to time, without any notice arising from our continuous product development activities.</i></p>