

CMA100® ULTRA CLEARSEAL

Spray Applied Lifetime Waterproofing



DESCRIPTION:

CMA100® reacts with calcium to form a water insoluble calcium silicate hydrate gel that seals the cracks, pores and capillaries of the concrete. It will seal cracks in the concrete up to 2.2mm and with most mix designs will remain reactive in the concrete to seal future hairline cracks on contact with water. CMA100® waterproofing is sprayed onto FULLY cured concrete. As a Liquid CHS waterproofing it forms a barrier inside the concrete: waterproofs and protects the concrete from corrosion and degradation for the design life of the structure.

WHY USE CMA100?

	CMA100® waterproofs for the life of the structure						
	Permanently seals static cracks up to 2.2mm						
	Seals future hairline cracks on contact with water with most mix designs						
	Protects against water, chloride and sulphate ingress; increases resistance to chemical attack						
	Hardens concrete to higher level (9 of Mohs scale) than granite (6-8 Mohs Scale=140MPA)						
	Increases the bond of concrete to cementitious materials by 80%						
	Does not require a screed						
	Cannot be damaged on site by other trades						
	Trafficable 2-6 hours after application						
	Suitable for ponding water						
	Non-toxic. Suitable for use with potable water						
	No re-application needed for years to come						
	Straightforward one coat application. No bonding issues as occurs with many membranes						
	Environmentally friendly. May earn LEED points.						
	Cost effective						
	☐ Super-fast application ensures faster project completion and saves \$\$\$						
	AL APPLICATIONS:						
Because	of its ability to withstand thermal stress and its super-fast application, CMA100® is particularly						
suitable	for areas of exposed concrete such as:						
	☐ Car Parks ☐ Wharfs						
	☐ Rooftops and podium decks ☐ Marine Structures						
	☐ Bridge decks ☐ Pre-cast Panels						
	☐ Landscaped areas ☐ Driveways						

APPLICATION:

EQUIPMENT

Application is by low pressure sprayer such as a backpack sprayer, or motorised pump, depending on the size of the project.

SUPER FAST APPLICATION

Typically, one person with a backpack sprayer can apply 1000m² per day and with a motorised pump can apply about 6000m² per day. Compare this to a membrane where one person can typically apply not more than 100m² per day. CMA100[®] is suitable for use on both horizontal and vertical surfaces.

COVERAGE:

In general, usage will be around 1 litre to 5 square metres, however this will vary according to the MPa and finish of the concrete. High MPa concretes with a smooth finish may only use 1 litre to 6 square metres, whilst low MPa concretes with open pores may use 1 litre to about 4 square metres.

APPLICATION GUIDELINES:

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	CMA100® is suitable for use on properly vibrated structural concrete with a minimum of 20MPa.
	Apply at temperatures above +5°C. For application at temperatures above +40°C, contact CMA
	Technical Department for specific instructions.
	Prior to CMA100® application, remove any honeycombing by chipping out, applying CMA100 and
	filling with mortar.
	Apply to clean, dry, cured concrete.
	Remove materials which will retard penetration such as curing compounds etc
	Apply CMA100® until the concrete will accept no further product. If there are cracks, apply
	additional product at approximately 1 litre to 3 lineal metres. For large or difficult cracks apply
	DRIZORO Maxjoint Express.en the surface is touch dry (generally 2-5 hours depending on climate),
	water abundantly. CMA100 "loves" water and provided the product has soaked into the concrete it
	cannot be over-watered.
	24 hours after the first watering, water again very generously.
	48 hours after the first watering, water again very generously.
	After application, the area can be ponded to verify performance.

IMPORTANT NOTE: The product MUST be watered within 6 hours of initial application, or it may not perform to specification and may need to be re-applied.

APPLICATION TO VERTICAL SURFACES

Apply as per instructions above. However, instead of one coat at 1 litre to 5m², do two coats at the rate of 1 litre to 10m². Apply the first coat at 1 litre to 10m² then, before the product has dried, apply the second coat, also at 1 litre to 10m². This prevents excess product running down the wall and the end result is coverage at 1 litre to 5m².

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POF	RTANT CAUTIONS:
	Apply only to properly vibrated structural concrete of 20MPa and above.
	Any materials, including some curing agents that prevent penetration of CMA100® into the concrete,
	must be removed prior to application.
	CMA100® is not suitable for sealing structural/working/volatile cracks or those caused by mechanical
	damage.
	Most CMA Approved Applicators offer a waterproofing system and if cracks are present that
	CMA100® is unable to seal, they can be treated with an ancillary product (Drizoro Maxjoint Elastic).
	Consult your local distributor for details.
	CMA100® is not normally recommended for negative side waterproofing. Where waterproofing from
	the negative side is required, use DRIZORO MAXSEALFLEX.
	Do not spray CMA100® onto glass, aluminium, wood or painted surfaces or etching may occur. Should
	contact occur, immediately rinsing thoroughly with water may minimise the etching.
	Design Detailing: CMA100® is not suitable for sealing where segregations and voids are likely, such as
	design cracks, expansion joints and penetrations. CMA100® should be used in conjunction DRIZORO
	MAXJOINT ELASTIC EXPRESS.logy. Consult your local distributor for details.
	Pour structural slabs to fall where possible. No screed is required, saving time and money compared
	to membranes.
	It is BEST practice to seal all Floor/Wall joints using DRIZORO Maxseal Flex and embed Maxmesh.

PACKAGING

Available in 5 litre, 10 litre, 20 litre and 200 litre

SHELF LIFE / STORAGE

Stir prior to use. CMA100® has no known shelf life but must be kept in a sealed container and out of direct sunlight. Store between 1°C and 60°C. Do not freeze.

SAFFTY

Take adequate precautions, such as wearing protective gloves and use breathing apparatus if applying in enclosed environments. Avoid contact with the skin and eyes. If contact is made, especially with the eyes, flush with lots of water. Refer to Safety Data Sheet.

TECHNICAL DATA

Colour	opaque liquid Clear to slightly	TESTING SHEET		
Specific Gravity	Range 1.2 - 1.3	PROPERTIES	STANDARD	RESULT
Voc	Zero	Water Permeability	EN1062:3	70% Reduction
Boiling Point	101°C	Chlorine Permeability	ASTM C1202-19	Very low
рН	11.3	Depth of Penetration	EN1504:2	Exceeds standard
Toxicity	Non-Toxic	Concrete Hardness	EN101	Grade 9 of Mohs scale (Granite is 6-7)
Non-volatile solids	25 - 27%	. Slip Resistance change	EN1303-6:2011	No change
Flammability	Not applicable	Bond to cementitious materials (pull-off	EN1542:199	80% Increase

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WARRANTY

CMA Pty Ltd warrants that the products supplied conform to the formulation standards contained in all components in their proper proportion and are free from material defects. If any of the products are found to be defective, the subsequent liability to CMA Pty Ltd shall be limited only to the replacement of the product proven to be defective and shall not be liable for any other claim or for incidental or any consequential damages that may arise directly or indirectly with the said defective product. The user shall determine the suitability of the product for its intended use and the user assumes all liability in connection therein and CMA Pty Ltd shall not be liable save for terms of this warranty.

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