Technical
Data Sheet
November 2022

Crommelin®
Waterproofing & Sealing

Acrylic Modifier

Additive designed to improve physical properties of cement mortars.

DESCRIPTION

Acrylic Modifier represents a new generation of cement modifiers, developed to improve the physical properties of cement mortars and to produce exceptional performance in cement renders.

Acrylic Modifier improves the chemical, corrosion, moisture and salt water resistance of cement renders. It has been specifically formulated for use in highly alkaline cement environments.

Cement mortars based on Acrylic Modifier will adhere to a wide range of materials such as metals, timber, insulation foams as well as new and old concrete.

ADVANTAGES

Acrylic Modifier delivers the following advantages when added to concrete and mortars;

- Increases tensile, flexural, impact and compressive strengths.
- Waterproof.
- Suitable for use in contact with drinking water.
- Resists acids, alkalis, fats and oils.
- Increases abrasion resistance.
- Can be applied in thin coats.
- Excellent UV durability.
- Promotes adhesion, superior to PVA's & SBR's.

AREAS OF USE

Acrylic Modifier is suitable for use in the following areas;

- Water Tanks
- Pipe Lining
- Factory Floors
- Driveways
- Re-Building Stairs/Steps
- Tile Bedding & Grouting
- Render/Granolithic Coatings
- Spalled Concrete & Crack Repairs

SUBSTRATES

Acrylic Modifier is suitable for application on;

- Concrete & Brick
- Plywood Sheeting
- Fibre Cement
- Timber
- Metal Sheeting
- Renders

TESTING APPROVALS AND STANDARDS

Acrylic Modifier is compliant with the following standard;

- AS4020 Products for Use with Drinking Water.

TECHNICAL DATA (@ 25°C)

Mix Ratio:	15% modifier to cement weight
Full Cure:	28 days
Colour:	Milky liquid
Clean Up:	Water
Shelf Life:	12 months

TEST DATA

Plain O.P.C. modified with Acrylic Modifier	Before	After
Tensile Strength (N/mm^2)	1.6	4.2
Flexural Strength (N/mm^2)	4.2	10.9
Compressive Strength (N/mm^2)	16.5	39.4
Impact Strength (inch/pound)	6.0	16.0
Shear Bond (N/mm^2)	0.3	4.5

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SPECIFICATIONS

Slurry Coating	
Portland Cement:	2kg
Fine Sand:	1kg
Acrylic Modifier:	2L
Mix approximately:	3L
Coverage:	15m^2 (approx.)
Under tile Levelling Screed	
Plasterers Sand:	80kg
Portland Cement:	16kg
Acrylic Modifier:	1.7L
Water:	Min. required
Approximate volume of mix:	62L
Coverage:	6m^2 @10mm
Concrete Repair, Cement Render, Tile Grouting	
Sand:	40kg
Portland Cement:	20kg
Acrylic Modifier:	8L
Water:	Min. required
Approximate volume of mix:	30L
Coverage:	3m^2 @10mm /5m^2 @ 6mm
Waterproof Render or Mortar (min. 10mm thickness)	
Dry, Clean (clay free) Sand:	120kg
Portland Cement:	40kg
Acrylic Modifier:	30L
Water:	Min. required
Approximate volume of mix:	93L
Coverage:	9.3m^2@10mm
Light Duty Granolithic Topping	
Flooring Sand:	40kg
Portland Cement:	20kg
Acrylic Modifier:	9.6L
Water:	Min. required
Approximate volume of mix:	32L
Coverage:	5.3m^2@ 6mm/3.2m^2 @ 10mm
Heavy Duty Granolithic Topping	
Granite chips (3mm):	30kg
Flooring sand:	30kg
Portland cement:	20kg
Acrylic Modifier:	9.6L
Water:	Min. required
Approximate volume of mix:	40L
Coverage:	6.4m^2@ 6mm/3.2m^2@12mm

ANCILLARY PRODUCTS

- Crommelin® Contractor Membrane Applicator Brush – 100mm, 75mm
- Crommelin® Contractor Membrane Roller Cover – 230mm
- Crommelin® Moisture Meter

SUBSTRATE PREPARATION AND PRIMING

Full substrate preparation instructions can be found at www.crommelin.com.au/full-instructions/

- Substrate should be primed with a 1:1 dilution of Acrylic Modifier and water.
- Apply with Crommelin® Contractor Membrane Brush at the approximate rate of 6-12m^2/L.
- Allow to become tacky then apply topping.
- For porous surfaces prime with a slurry coat (refer to specifications for mix recommendation).

APPLICATION CONDITIONS

- Substrate must be dry. The use of suitable moisture meter is recommended.
- Application temperature between 7°C - 35°C.
- Do not apply if relative humidity is above 85% during initial cure phases, or if rain is expected before cure.

Note: In humid conditions, air flow should be maximised with the use of fans to assist cure.

APPLICATION

Full application instructions can be found at www.crommelin.com.au/full-instructions/

- Apply concrete and mortars as per specifications and normal practice.

CLEAN UP

- Wash all equipment in warm water and a small amount of detergent immediately after use.

PRECAUTIONS

- Do not apply if the temperature is below 7°C or relative humidity is above 85% or if rain is imminent.

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WARRANTIES

Please contact your Crommelin® representative, or the Crommelin® technical support team for detailed specifications applicable to your project and warranty requirements.

TRANSPORT AND STORAGE

- Size: 1L, 15L
- Weight: 1.1kg, 16.5kg
- DG Class: N/A
- Flash Point: N/A
- UN Number: N/A
- Cool and Dry Storage

SAFETY AND FIRST AID

Acrylic Modifier Safety Data Sheet is available from Crommelin® upon request.

Safety

- Ensure good ventilation and avoid breathing vapours.
- Avoid skin and eye contact. Wear gloves and eye protection. Remove splashes on skin immediately and remove contaminated clothing.
- Keep out of reach of children.
- Keep container sealed when not in use.
- Do not swallow.

First Aid

- If poisoning occurs, contact a doctor or poisons information centre: Ph. 13 11 26.
- If swallowed, do not induce vomiting. Give a glass of water to drink.
- If in eyes, hold eyes open and flood with water for at least 15 minutes.
- If not breathing, apply artificial respiration.