

ElastoBond Datasheet

October 2022

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ElastoBond is a liquid polymer to be mixed with Cemcrete's MatCrete powder to create a tough, flexible, UV resistant waterproofing membrane. Applied by brush, **ElastoBond** & MatCrete mixture possesses excellent flexibility, crack bridging properties and UV resistance which allows it to be left exposed and subjected to light foot traffic.

Technical Data

Type	Non-hazardous
Colour	Milky white liquid
Curing	Usually 36 - 48 hours depending on the surface porosity and ambient temperatures
Temperature range	5°C to 25°C
Density	± 1kg/litre
Other properties	UV stable and flexible
Safety	See MSDS

Purpose

It is suitable for waterproofing shower recesses, external decks, planter boxes and flat roofs where there is light foot traffic, pool spillover areas.

Applications

ElastoBond & MatCrete mixture can be applied onto:

- Parapet walls (to create capping), as well as cantilevered areas (to waterproof)
- Light trafficked rooftops, walkways and decks requiring a moderately textured and tough waterproof membrane. In these areas occasional foot traffic is permitted. Cemcrete's CreteSeal Water-Based applied to dried **ElastoBond** & MatCrete will enhance abrasion resistance
- Planter boxes, retaining walls and basements NOT subjected to rising damp
- Bathrooms, shower recesses, laundries and all wet areas requiring a tiled finish
- Swimming pools and wading pools when covered with tiles or decorative toppings
- Wet areas where low moisture evaporation and poor ventilation extends the drying times of single component membranes (**ElastoBond** / MatCrete cures in addition to drying)
- Water containment areas such as water features, ponds and fountains
- Roofs, walls, floors, over concrete, cement render, marine plywood, metal, pre-cleaned galvanized iron, fibre cement sheets and exterior grade plasterboard

Note

Ambient temperature must be higher than 5°C. Protect from freezing in the container and for at least 6 hours after application. Use only on surfaces that are sound, clean, dry or unpainted unless prepared as mentioned. Avoid application in direct sunlight to minimise premature drying.

Specifying

Cemcrete's **ElastoBond** & MatCrete waterproofing system may be used in conjunction with:

1. Cemcrete's Concrete Floor Primer – primer for rough, porous surfaces or Cemcrete's PrimerCote – primer for smooth, dense, impervious surfaces.
2. Cemcrete's Polypropylene Membrane (200mm wide) – used as reinforcement in coving areas, internal corners and interfaces, and over cracks in the substrate.
3. Cemcrete's CemLam / CemForce textile reinforcement system.

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Precautions

ElastoBond & MatCrete forms a vapour barrier and should not be used over surfaces where rising damp is a problem.

- Do not apply the **ElastoBond & Matcrete** system in temperatures below 5°C or greater than 30°C. The application should not be commenced if rain appears imminent within 24 hours
- Do not fill water containing structures for 72 hours after the application of **ElastoBond & MatCrete**.
- Do not seal, screed or tile over this waterproofing system until it has fully dried and do not expose to heavy foot or vehicular traffic unless overcoated.
- When using membrane in conjunction with **ElastoBond & MatCrete** it is important that the membrane is properly saturated and any air bubbles are removed / flattened out during the application process.
- Contact Cemcrete Technical Department when excessive cracks or joints are encountered.

Surface preparation

The surface must be structurally sound, clean, dry and free from shutter release and curing agents, laitance and surface contamination such as dust, dirt, waxes, oils, old adhesives, paint, grease, sealants, weak cement screeds and renders, etc. or anything that could interfere with adhesion.

Bituminous compounds must be removed completely. New concrete or screeds must be at least 28 days old, and new renders or brickwork must be at least 14 days old. Any surface defects must be made good (holes can be filled using Cemcrete's PrimerCote as a repair mortar) and all protrusions which may pierce the membrane must be ground off. Cementitious substrates must have a moisture content of 5% or less before the waterproofing application can be commenced.

Priming

All surfaces to be waterproofed must be fully cured and primed, as follows:

- Wood floated (rough, porous) surfaces - prime with Cemcrete's Concrete Floor Primer as per the manufacturers instructions.
- Power floated or steel-trowelled surfaces (smooth, dense, impervious) - prime with Cemcrete's PrimerCote as per the manufactures instructions.
- Dry walling – prime with a coat of neat Cemcrete Concrete Floor Primer brushed in one direction. Allow to dry, then apply a second coat of Concrete Floor Primer brushed in one direction perpendicular to the direction of the 1st coat.

Allow the priming coat to dry, approximately 20 – 30 minutes depending on weather conditions, before proceeding with the **ElastoBond & MatCrete** application.

Small cracks:

- Remove loose particles and clean thoroughly
- Prime with Cemcrete's Concrete Floor Primer
- Fill cracks with a high quality silicone sealant
- Apply the first coat of the mixture, then immediately apply the Polypropylene Membrane into the wet coat. Immediately apply a second coat of the mixture to completely saturate the membrane

Movement and Construction Joints:

- Remove loose particles and clean thoroughly
- Prime with Cemcrete's Concrete Floor Primer
- Fill the joints with a high quality silicone sealant (tube)
- Apply the first coat of waterproofing mixture, then immediately apply the Polypropylene Membrane into the wet coat. Immediately

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apply a second coat of waterproofing mixture to completely saturate the membrane

- NOTE: When tiling/screeding, all movement joint and construction joints must be carried through to the face of the tiles/screed

Fill the joints between the tiles on top of the movement joints with an appropriate joint sealant.

Coving Areas and Internal Corners:

- Remove loose particles and clean thoroughly
- Prime rough, porous surfaces with Cemcrete's Concrete Floor Primer and smooth, dense or impervious surfaces with Cemcrete's PrimerCote paint the primer onto the surface using a block brush, and allow to dry completely before proceeding
- To allow for movement, apply a 10mm silicone bead in the coving areas and corners
- Apply the first coat of **ElastoBond** mixture, then immediately apply the Cemcrete's Polypropylene Membrane into the wet coat. The membrane must be saturated & pushed into the corners, ensuring that the entire interface is covered with Polypropylene Membrane. Apply a second coat of the **ElastoBond** mixture to completely saturate the membrane before the first coat dries
- The waterproofing system should be applied up underneath any existing cover flashing or appropriate flashing

Shower Recesses:

1. Internal Corners and Interfaces of Shower

- To allow for movement, apply a 10mm silicone bead in all internal corners and joint around the waste pipe / floor waste and around the tap and rose plumbing
- Apply the first coat of **ElastoBond** mixture to these areas, then immediately apply the Polypropylene Membrane into the wet coat. The membrane must be pushed into the corners, ensuring that the entire interface is covered with Polypropylene Membrane. Apply a second coat of **ElastoBond** mixture to completely saturate the membrane before the first coat dries

2. Shower Floor Waste

- Apply a coat of **ElastoBond** mixture up the pipe and immediately position the Polypropylene Membrane into the wet **ElastoBond** mixture. Apply a second coat of **ElastoBond** mixture to completely saturate the membrane. For wastes that are flush with the floor, take the application either into or around the outlet, depending on the design. It is advisable to create a mechanical key by sanding the surface to which the **ElastoBond** needs to adhere to

3. Shower Walls and Floors

- Apply **ElastoBond** mixture with a brush to the wall and floor area and allow to dry. Apply a second coat in a perpendicular direction to ensure complete coverage and no air entrapment
- Ensure that the main application overlaps any corner and floor waste applications by at least 50mm
- NOTE : The **ElastoBond** mixture system must extend at least 100mm above the highest point of the shower recess floor. It is advisable to flood test the shower 24 hours after curing. This should be done before tiling commences

Roof Slabs and Balconies:

- Roof slabs must have a minimum slope of one degree and adequate provisions for drainage. Two coats of **ElastoBond** mixture must be applied to ensure a minimum of 3mm thickness is achieved. Apply the first coat of **ElastoBond** mixture to the dry, primed surface with a brush or soft broom and allow to dry (approximately 1 - 2 hours or longer in humid conditions). Apply the second coat of **ElastoBond** mixture in a cross direction to ensure complete coverage, with no air entrapment or pinholes.
- Ensure that the main application overlaps the corner applications by at least 50mm
- Allow the **ElastoBond** mixture system to dry completely (approximately 24 hours, depending on weather conditions) before being subjected to light foot traffic or the application of covering materials, eg. ceramic tiles, decorative screeds, sealers etc.

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Mixing

Mixing ratio of powder to liquid is 1:1 by volume i.e. 1 litre liquid to 1 litre powder.

Do not attempt to thin the liquid by the addition of more than 5% clean water, nor add sand to the powder as this will adversely affect the final performance and cause cracking. Pour the powder into the liquid whilst stirring with a low speed mechanical stirrer and stir until a smooth, lump-free paste is obtained. Allow to stand for 2 minutes and then mix again before use.

The pot life of **ElastoBond** mixture is approximately 1 hour at 23°C and 50% RH.

Drying time

Usually within 24 – 36 hours, depending on humidity, ambient temperatures and surface porosity. The **ElastoBond** mixture dries by reaction between powder and liquid, moisture evaporation and absorption into the substrate, so allow longer for surfaces with low porosity. Allow **ElastoBond** mixture to cure before subjecting the floor to light foot traffic (at least 24 hours). Do not use showers for at least 72 hours after application of **ElastoBond** mixture. This ensures application is thoroughly cured.

Tiling and coating over the ElastoBond mix

Allow the **ElastoBond** mixture to dry completely (24 - 36 hours, depending on ambient conditions) before fixing tiles.

Adhesive: Use tile adhesive to fix the tiles in a solid bed of adhesive.

Grout: Allow the adhesive to dry before grouting with a suitable grout.

Do not use shower for at least 72 hours after completion of tiling and grouting to ensure that the installation is fully cured.

Coverage

Coverage is approximately 10m² per 20 litres of **ElastoBond** mixed with 20kg MatCrete at 2 - 3mm cured film thickness. This is also dependant on the amount & type of membrane used in the application.

Storage

When stored in dry internal conditions between 5°C and 30°C and out of direct sunlight the product has a shelf life of 12 months from date of invoice. Never store directly on a concrete floor.

Packaging

ElastoBond	Supplied in 1, 5 & 20 litre containers
MatCrete	Supplied in 40kg bags
Concrete Floor Primer	Available in 5 & 25 litre containers
PrimerCote	Supplied in 5kg containers
Polypropylene Membrane	Available in 200mm x 10m rolls

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