

ElastoCrete 201

Single Component Polyurethane Waterproofing Coating



DESCRIPTION • *ElastoCrete 201* is a single-component, liquid applied, elastomeric polyurethane coating for waterproofing concrete surfaces. *ElastoCrete 201* provides excellent resistance to moisture, water, and salts penetration into concrete and masonry surfaces.

USES • *ElastoCrete 201* is used to protect and waterproof concrete and other masonry surfaces where prolonged water exposure and dampening are present. *ElastoCrete 201* has the ability to uniformly and completely cover the surface, forming a continuous membrane that prevents water leakage and penetration of moisture into the concrete surface. *ElastoCrete 201* is ideal for waterproofing retaining walls, kitchens, bathrooms, planter boxes, roofs and other wet areas.

COMPLIANCE • *Elastocrete 201* complies with BS EN 12390 and ASTM D 412-98a.

ADVANTAGES

- ✓ No primer is required.
- ✓ Liquid applied.
- ✓ Non-toxic.
- ✓ Provides a seamless coating.
- ✓ Flexible with crack bridging ability.
- ✓ High bond strength to a variety of substrates and building materials.
- ✓ Resists positive and negative pressure.
- ✓ Excellent chemical resistance.
- ✓ Easy to apply with roller or brush.
- ✓ Excellent resistance to humidity and temperature
- ✓ Excellent resistance to Chlorides and Alkalies.
- ✓ Good impact resistance and tensile strength.

LIMITATIONS • Never apply to new concrete surfaces before they have been allowed to cure for a minimum of 28 days. *ElastoCrete 201* is only a fine coating; it should not be used to fill cracks or holes in the surface. *ElastoCrete 201* must be applied at a minimum dry film thickness (DFT) of 200 microns. Do not apply when ambient temperature is below +10°C. Do not apply on wet or damp surfaces. Do not apply if rain is expected in the proceeding 24 hours.

COVERAGE • Application rate will vary according to surface conditions, application technique and job conditions. A coverage rate of 3-4 m²/liter at 200-230 microns DFT is dominant.

PHYSICAL PROPERTIES

Tensile Strength (ASTM D 412-98a)	7.72 MPa
Elongation (ASTM D 412-98a)	115%
Tear Resistance (ASTM D 624-98)	36.2 N/mm
Water Penetration (BS EN 12390 Part 8:2000)	Nil.
Vapor transmission	8-10 gms/m ² /day
Solid Content	90%
Application Temp. (°C)	10-50
DFT (one coat)	200-230 micron
Drying Time	6 - 8 hrs.
Pot Life	4hrs.

SURFACE PREPARATION • All surfaces should be clean, dry and free from dust and other contaminants. Wet substrates should be sponge dried to remove all free surface water then air dried. Treat oil or grease contamination with degreaser followed by water or steam cleaning. Floor area and the wall up to a height of 200 mm shall be thoroughly cleaned dry and free of dust, loose cement mortar, grease, oil, and other contaminants.

New concrete floors: should be at least 28 days old and have a moisture content of less than 5%. The relative humidity at the surface should not be more than 25% as per BS8201:1981. Excessive laitance should be removed by mechanical methods. Dust and other debris should be removed by vacuum cleaning. Any fine cracks or pin holes should be covered with *MortCrete 3000* or other epoxy-based mortar.

Old concrete floors: damaged areas or surface irregularities should be repaired using *MortCrete 3000* or other epoxy-based mortar. All cracks larger than hairline shall be considered as moving and must be repaired with *MortCrete 3000*. All delaminated and splashed areas of concrete shall be repaired prior to application of *ElastoCrete 201* with *MortCrete 3000*. Any angle fillet areas must be filled with *PatchCrete 101 Multi-Use Repair Mortar* before the application of *Elastocrete 201*. Remove all unsound concrete. Patches shall be flush with the surrounding surface and shall match the texture of existing surfaces.



Epoxy Screeds: high spots or trowel marks should be rubbed down. Remove dust and debris by vacuum cleaning.

MIXING • Just prior to application, thoroughly mix the contents of the container using a heavy duty slow speed power drill with a jiffy mixing blade. Care should be taken to scrape the sides and bottom of the container with the mixer. Do not add solvent thinners at any time.

APPLICATION • After mixing, **ElastoCrete 201** should be immediately applied to the dry surface while ensuring a continuous coating of uniform thickness is obtained. A stiff nylon brush or short nap roller is recommended for such application. For faster rates of application use an airless spray. A brush may be used for touch-up and edging work or for areas unsuitable for spray or roller application.

ElastoCrete 201 must be applied all along the angle fillet, corners, joints around the pipes, conduits etc. Apply **ElastoCrete 201** on surrounding walls up to a height of 150 mm.

Always apply in two coats in order to avoid pinholes. The second coat can be applied as soon as the first coat has dried (4 - 6 hours) depending on the ambient and surface temperature. All surfaces should be sprayed with multi-direction spray passes or rolled cross-direction each coat to assure positive continuous film coverage.

A wet test may be performed when at least 24 hours have passed since application of the final coat.

CLEANING • Tools and equipment must be cleaned with naphtha or other organic solvents.

STORAGE & SHELF LIFE • Product should be stored at room temperature in dry conditions away from direct sun light. Shelf life is approximately 6 months from date of purchase in original unopened container at specified storage temperature.

SAFETY PRECAUTIONS • Protective clothes such as coveralls, goggles and respiratory masks shall be worn. If spilled into eyes, wash with plenty of water immediately and if irritation persists seek medical treatment.

DANGER, FLAMABLE – do not expose to sources of open flame. Do not allow smoking during mixing or application. **KEEP AWAY FROM CHILDREN.** The application of material should be under good ventilation. Avoid inhalation of the vapors. Always wear protective clothing, goggles, vinyl gloves, and vapor mask. **DO NOT TAKE INTERNALLY, MAY BE FATAL IF SWALLOWED.** First aid: Eyes – flush with water and seek medical attention immediately. Do not use any solvents. Ingestions – give several glasses of water or milk and seek medical attention immediately. Contact with skin – wash affected area immediately. Inhalation – move to fresh air.

The product complies with environmental and occupational health & safety standards ISO 14001 and OHSAS 18001.

PACKAGING • 20 liter pail.