

ElastoCrete 200

Pitch Modified Polyurethane Waterproofing Coating



DESCRIPTION • *ElastoCrete 200* is a single-component, liquid applied, pitch modified, elastomeric polyurethane coating for waterproofing concrete surfaces. *ElastoCrete 200* forms a black colored, rubber like membrane upon curing that protects concrete surfaces from water penetration.

USES • *ElastoCrete 200* is used to protect and waterproof concrete and other masonry surfaces where prolonged water exposure and dampening are present. *ElastoCrete 200* 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 200* is ideal for waterproofing retaining and masonry walls, kitchens, bathrooms, planter boxes, roofs, concrete roofs, polyurethane foam, polyester buildup roofs, maintenance of existing rooms, basements, bridges, decks, metal surfaces, and other wet areas.

COMPLIANCE • *ElastoCrete 200* complies with BS EN 12390, ASTM D 412, ASTM D 624, and ASTM C 836.

ADVANTAGES

- ✓ No primer is required.
- ✓ Easy to apply - liquid applied.
- ✓ Provides a seamless coating.
- ✓ Flexible with excellent crack bridging ability.
- ✓ High bond strength to a variety of substrates and building materials.

PHYSICAL PROPERTIES

Tensile Strength (ASTM D 412)	1.52 MPa
Elongation (ASTM D 412)	650%
Tear Resistance (ASTM D 624)	20 N/mm
Modulus @ 100% Elongation (ASTM D 412-06a)	0.62 MPa
Water Penetration (BS EN 12390 Part 8:2000)	Nil. @ 5 bar
Water Vapor Transmission (ASTM E96/E96M-05)	0.36 g/m ² .h
Solid Content	85%
DFT (one coat)	600 micron
Crack Bridging (ASTM C 836)	1.5 mm
Shore A Hardness (ASTM D 2240-05)	56

LIMITATIONS • *ElastoCrete 200* contains tar and is therefore toxic. It should never be used for potable water tanks. Due to the noxious fumes, adequate ventilation must be provided during application in addition to proper protective gear. *ElastoCrete 200* is only a fine coating; it should not be used to fill cracks or holes in the surface. *ElastoCrete 200* is not a UV resistant coating. 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 1 m²/L for a dry film thickness of 600 microns.

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 200* with *MortCrete 3000*. Any angle fillet areas must be filled with *PatchCrete 101 Multi-Use Repair Mortar* before the application of *ElastoCrete 200*. 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 until a homogeneous mix is achieved. 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 200* should be immediately applied directly to the dry concrete 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 200 must be applied all along the angle fillet, corners, joints around the pipes, conduits etc. Apply *ElastoCrete 200* on surrounding walls up to a height of 150 mm.

For best results apply in two coats of 500 micron DFT each in order to avoid pinholes. The second coat can be applied only after the first coat has dried completely for at least 6-8 hours depending on ambient conditions. All surfaces should be sprayed with multi-direction spray passes or rolled cross-direction each coat to assure positive continuous film coverage. For enhanced adhesion between the two coats, sprinkle 300 micron silica aggregates on the first coat while it is still wet; remove excess silica before applying the second coat.

A wet test may be performed when at least 24 hours have passed since application of the final coat. The coating achieves its full mechanical properties after 7 days of curing.

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.