

# ElastoCrete 202

## 2K PU Waterproofing Coating



**DESCRIPTION** • *ElastoCrete 202* is a liquid applied, two-component, flexible, high solids content aromatic polyurethane coating for waterproofing concrete surfaces. *ElastoCrete 202* provides a slip-resistant, and chemical and abrasion resistant surface while waterproofing concrete and masonry surfaces.

**USES** • *ElastoCrete 202* is used to protect and waterproof concrete and other masonry surfaces where dampening and water exposure are present. *ElastoCrete 202* may be used as an intermediate layer for waterproofing concrete car parking surfaces when used in a multi-coat system or as a final coat when applied in several layers for light duty internal applications. *ElastoCrete 202* may also be used as a primer coat in a multi-coat polyurethane system. *ElastoCrete 202* is generally used for waterproofing parking areas, industrial floors, chemical plants, passageways, balconies, roofs, and wet areas such as kitchens and bathrooms.

**COLORS** • *ElastoCrete 202* is available uncolored (opaque yellow) or colored. Please refer to CCC's Resins Color Chart.

**COMPLIANCE** • *ElastoCrete 202* complies with ASTM D 412-98a. and BS EN 12390.

**ADVANTAGES** •

- ✓ Liquid applied.
- ✓ May be applied directly on concrete as a primer.
- ✓ Excellent abrasion resistance.
- ✓ Weather and corrosion resistant.
- ✓ Provides 100% resistance to water penetration.
- ✓ Flexible with crack bridging ability.
- ✓ High bond strength to a variety of substrates.
- ✓ Resists positive and negative pressure.
- ✓ Excellent chemical resistance.
- ✓ Easy to apply with roller or brush.
- ✓ 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 202* should not be used to fill cracks or holes in the surface. *ElastoCrete 202* 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 8 hours.

**PHYSICAL PROPERTIES** •

Solid content	80.7%
Tensile Strength (ASTM D 412)	9.9 N/mm <sup>2</sup>
Tear Strength (ASTM D 624-98)	74 N/mm
Pull Off Strength (BS 1881 Part 207)	1.2 N/mm <sup>2</sup>
Hardness Shore D	70
Elongation (ASTM D 412)	80%
Impact Resistance (ISO 6272)	No Cracking
Water Penetration @ 5 bars	Nil.
DFT (one coat)	200 microns
Drying Time	6 - 8 hrs.
Pot Life (max.)	1 hr.

**COVERAGE** • Application rate will vary according to surface conditions, application technique and job conditions. A coverage rate of 4-6 m<sup>2</sup>/liter at 200 microns DFT is dominant.

**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 202* with *MortCrete 3000*. 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.

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**MIXING** • Lightly stir the contents of the A component for 2-3 minutes using a jiffy mixing blade attached to a low-speed drill (200-300 RPM) for five minutes. Ensure that the components are thoroughly and evenly distributed, eliminating any settlement that might have occurred in the container. Pour the contents of the B components (clear part) into the A component container, scraping the sides of the B component container to ensure that the entire contents of the container are used. Mix thoroughly to a streak-free color uniformity using a jiffy mixing blade attached to a low-speed mixer. Due to the short working life, ElastoCrete 202 must be used immediately after mixing. Working time decreases with increasing ambient temperature.

**APPLICATION** • After mixing, *ElastoCrete 202* 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 202* may be applied directly on concrete surfaces as a primer coat before applying a polyurethane or epoxy coat.

*ElastoCrete 202* may be applied as an intermediate coat in a multi-coat system for waterproofing concrete surfaces. Do not apply subsequent coats until the *ElastoCrete 202* has sufficiently dried. *ElastoCrete 202* must be applied all along the angle fillet, corners, joints around the pipes, conduits etc.

When used alone for waterproofing concrete surfaces, apply in at least two coats. The second coat can be applied as soon as the first coat has dried (6 - 8 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.

Inter-coat adhesion may be improved by sprinkling *A-Z Quartz* of size 0.3 mm or equivalent graded silica sand to the *ElastoCrete 202* coat while still wet at a rate of 0.3 kg/m<sup>2</sup>. Use spiked shoes during application. Allow to dry to full cure before removing excess quartz sand by lightly cleaning with a broom.

**CLEANING** • Tools and equipment must be immediately cleaned with an organic solvent.

**STORAGE & SHELF LIFE** • Product should be stored at 25°C in dry conditions away from direct sun light. Shelf life is approximately 12 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, HIGHLY 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** • 15 kg Net (Part A 12.0 kg + Part B 3.0 kg).

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### Creative Concrete Concepts

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