

DESCRIPTION • *ElastoCrete 222* is a liquid applied, tinted, two-component, aliphatic, water-based, low VOC, low viscosity, aliphatic polyurethane top coat for waterproofing and protecting concrete and masonry surfaces on interior and exterior applications. *ElastoCrete 222* is applied as a top coat on intermediate wearing coats in a multi-coat system for heavy duty applications, or directly on concrete surfaces for medium and light duty applications. *ElastoCrete 222* is a colored coating and is available in glossy and matte grades.

USES • *ElastoCrete 222*'s low VOC and water base makes it ideal for applications where an environmentally friendly coating is required. *ElastoCrete 222* may be used as the top coat in a multi-coat system in garages, warehouses, showrooms, and parking floors. *ElastoCrete 222* may be used directly on concrete surfaces for light duty applications such as retail showrooms and commercial applications with heavy foot traffic. Due to its water base, high chemical resistance, and high elongation, *ElastoCrete 222* is ideal for use in food processing plants, commercial kitchens, restrooms, hospitals, and laboratories where an environmentally friendly and waterproofing protective coating is required.

COLORS • *ElastoCrete 222* is available as a colored coating. Please refer to CCC's Resinous Coatings Color Chart.

ADVANTAGES

- ✓ Oderless and environmentally friendly water borne coating.
- ✓ Easy to apply with roller or brush.
- ✓ UV resistant.
- ✓ Excellent abrasion and chemical resistance.
- ✓ Resistant to staining including tire marks and hot tire pick up.
- ✓ May be applied directly to concrete, no primer is necessary.
- ✓ Weather and corrosion resistant.
- ✓ Available in both high gloss and matte grades.

LIMITATIONS • Never apply to new concrete surfaces before they have been allowed to cure for a minimum of 28 days. *ElastoCrete 222* is only a fine coating; it should not be used to fill cracks or holes in the surface. Do not apply when ambient temperature is below +10°C or above 40°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	50%
Pot Life @ 23°C	
Glossy grade	2:30 hr.
Matte grade	45 min.
Dry Time @ 23°C, 50% RH	
Glossy grade	7.5 hrs.
Matte grade	1.5 hrs.
Physical Appearance	Milky White or Colored
DFT (one coat)	200 micron
VOC (USUPA 24)	< 10 g/L
Tensile Strength (ASTM D 412)	14.2 MPa
Elongation (ASTM D 412)	48%
Water Penetration	Nil
Pull Off Strength (ASTM D 4541)	0.27 MPa
Tear Strength (ASTM D 624)	54 N/mm
Stain Resistance (ASTM D 1308)	
Ethyl Alcohol (50%)	No Effect
Vinegar (3%)	No Effect
Alkali Solution (pH 11.5)	No Effect
Acid Solution (pH 2.5)	No Effect
Soap & Detergent Solution	No Effect
Volatile Fluid (Acetone/Petrol)	No Effect
Tea, coffee, vegetable oil & fat	No Effect
Grease/Lubricating Oil	No Effect

COVERAGE • Application rate will vary according to surface conditions, application technique and job conditions. Coverage rate is approximately 4-5 m²/liter at 200 microns DFT for a single layer.

SURFACE PREPARATION • All surfaces should be sound, clean, dry and free from dust, oil, grease, laitance, curing agents, loose particles, wax, tar, mildew, mold,, paint, sealers, coatings, 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. Sand blasting or wire brushing is recommended in the case of smooth troweled floors.

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

ElastoCrete 222 Water Based PU Top Coat

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 222* 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.

MIXING • Lightly stir the contents of the A component (pigmented part) for 2-3 minutes using a jiffy mixing blade attached to a low speed drill (200-300 RPM). Insure that the pigment is 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 insure 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.

APPLICATION • After mixing, *ElastoCrete 222* 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. A brush may be used for touch-up and edging work or for areas unsuitable for spray or roller application.

ElastoCrete 222 may be applied directly on concrete and masonry surfaces or on top of an intermediate wearing coat in a multi-coat system. Do not apply subsequent coats until the *ElastoCrete 222* has sufficiently dried. When used alone, two coats are recommended for flooring applications in order to achieve full protection effect.

Drying times will vary depending on ambient conditions. Water borne systems are sensitive to temperature and humidity changes: higher temperatures will shorten drying time, while higher ambient humidity will prolong drying time.

CLEANING • Tools and equipment must be immediately cleaned with clean water.

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 • DANGER! ACIDIC CONTENT MAY CAUSE SEVERE EYE IRRITATION AND MAY CAUSE BLINDNESS. KEEP AWAY FROM CHILDREN. CORROSIVE. Protective clothes such as coveralls, goggles, respiratory masks, and chemically-resistant aprons and boots should be worn. Application of materials should be under good ventilation. DO NOT TAKE INTERNALLY, MAY BE FATAL IF SWALLOWED. MAY CAUSE CANCER. 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.

PACKAGING • 10 liters kits.