

Water Based Epoxy Coating

DESCRIPTION • *EpoCrete 250W* is a high performance, two-component, water dispersible, non-toxic, colored, high solid content epoxy coating with excellent resistance to abrasion, chemicals, and moisture.

EpoCrete 250W does not contain any volatile organic compounds and is a safer and more environmentally friendly alternative to conventional coatings such as solvent based epoxies, polyesters, and acrylics. *EpoCrete 250W* is highly abrasion resistant and will not support the growth of bacteria.

USES • *EpoCrete 250W* was formulated to provide a hygienic, easy-to-clean, and non-dusting protective coating to concrete surfaces on horizontal and vertical applications. *EpoCrete 250W* may be applied to damp surfaces where a dry substrate may be impossible to obtain. *EpoCrete 250W* has good resistance to chemicals, will not support bacterial growth, and will not taint food stuffs.

EpoCrete 250W is suitable as a protective coating in food processing plants, commercial kitchens, canning and bottling factories, warehouses, garages, laboratories, hospitals, and clinics.

EpoCrete 250W is used as an intermediate wearing coat or as a final top coat for concrete floors; non-skid coat when sprinkled over with quartz granules; and as a finish coat for epoxy floor screeds to provide a durable, non-toxic, and easily cleaned surface where high impact resistance is desirable.

COMPLIANCE • *EpoCrete 250W* complies with ASTM D 412 and BS 6920.

ADVANTAGES

- ✓ Environmentally friendly – zero VOC.
- ✓ Easy to use and apply.
- ✓ Moisture tolerant.
- ✓ Available in wide range of colors.
- ✓ Non-toxic.
- ✓ Provides a seamless coating.
- ✓ High bond strength to a variety of substrates.
- ✓ Resists positive and negative pressure.
- ✓ Excellent abrasion resistance.
- ✓ Long pot life.

LIMITATIONS • Never apply to new concrete surfaces before they have been allowed to cure for a minimum of 28 days. *EpoCrete 250W* should not be used to fill cracks or holes in the surface. Do not apply if temperature drops below 10°C or exceeds 35°C.

PHYSICAL PROPERTIES

Mixed Density @ 25°C	1.45 kg/m ³
Initial Recoat Time	6-8 hrs @ 25°C
Max. Recoat Time	48 hrs. @ 25°C
Full Chemical Cure	7 days @ 25°C
Max. Service Temp.	60°C
Pot Life	60 min. @ 25°C
Dry Film Thickness	200-250 microns

COVERAGE • Application rate will vary according to surface conditions, application technique and job conditions. Coverage is approximately 4 m²/l.

SURFACE PREPARATION • All surfaces should be clean and free from dust, oil, and other contaminants. Concrete surfaces may be damp but not wet. Treat oil or grease contamination with degreaser followed by water or steam cleaning. The substrate must be fine textured since *EpoCrete 250W* is applied in small thicknesses.

Concrete: New concrete should be at least 28 days old. 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. Concrete must be free of excessive laitance, curing compounds, grease, or oil. Damaged areas or surface irregularities should be repaired using *MortCrete 3000* or other epoxy-based mortars. Ensure concrete surface is sound, cutting back where necessary and re-patching with *MortCrete 3000*.

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

MIXING • The entire contents of the hardener container should be poured into the base container, taking care to scrape the hardener container clean. The two materials must be mixed thoroughly for at least 3 minutes until a uniform color and consistency are obtained. Use a heavy duty slow speed power drill with an appropriate mixing blade. Care should be taken to scrape the sides and bottom of the container with the mixer. Do not add solvents or thinners at any time.

APPLICATION • After mixing, *EpoCrete 250W* should be immediately applied to the surface 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.

Priming: Substrates that are highly porous should first be primed with a coat of *EpoCrete 100W*.

EpoCrete 250W must be applied at a minimum total dry film thickness (DFT) of 200-250 microns. For best results, *EpoCrete 250W* should be applied in 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. If application of the second coat takes place more than 48 hours later at 25°C, the previous coat must be abraded to provide proper mechanical keying to the new coat. Higher temperatures require application of second coat within a shorter time frame. The second coat should be applied at right angles to the first coat. Allow 24 hours curing time before allowing light traffic. Full chemical cure is achieved after 7 days.

Slip Resistance: For an anti skid finish, broadcast *A-Z Quartz* or equivalent graded silica sand into wet base coat of *EpoCrete 250W* to saturation. Allow to dry over night then sweep of or vacuum excess aggregates then seal with the second coat of *EpoCrete 250W* or other resinous coating. A primer coat is highly recommended when an anti slip finish is required on areas that will be exposed to moisture or chemical spillage.

CLEANING • Tools and equipment must be 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 • Non flammable material. The application of material should be under good ventilation. Avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of contact with eyes, rinse immediately with plenty of clean water, do not use solvent and seek medical attention immediately.

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

PACKAGING • 15 liter pack including base and hardener.
