

DESCRIPTION • *EpoCrete 150* is an economical, two-component, solvent-based epoxy resin floor coating. The cured film forms a hard-wearing coating with excellent adhesion to concrete, granolithic screeds, and certain metal surfaces. *EpoCrete 150* cures to a matt, impervious finish which can be easily cleaned. *EpoCrete 150* is available in a wide range of colors and in clear grade.

USES •

EpoCrete 150 is suitable for use in production assembly areas, workshops, dairies, car parking, bottling plants, kitchens, showrooms, wet working areas and other areas with chemical spillage.

EpoCrete 150 provides a hard wearing, easily cleanable and attractive floor coating in areas where high resistance to chemical attack is required.

EpoCrete 150 is used as a final coating and sealer for concrete floors and as a finish coat for epoxy floor screeds to provide a more durable and easily cleaned surface where high impact resistance is desirable.

COMPLIANCE •

EpoCrete 150 complies with BS 476, Part 7: 1971 – Class 1.

ADVANTAGES •

- ✓ High impact resistance.
- ✓ Hard wearing and durable.
- ✓ Low maintenance costs.
- ✓ High abrasion resistance.
- ✓ Provides a hygienic, impervious finish.
- ✓ Product is available in a wide range of colors as well as clear.
- ✓ Primer not required.
- ✓ High chemical resistance.

LIMITATIONS • Application of silica aggregates on *EpoCrete 150* is not recommended due to the quick drying of the material. *EpoCrete 150* may however be used for line marking on ramps and other surfaces already coated with a rough finish epoxy coating.

Never apply to new concrete surfaces before they have been allowed to cure for a minimum of 28 days. *EpoCrete 150* is only a fine coating; it should not be used to fill cracks, gaps or holes in the surface. *EpoCrete 150* is not UV stable and light colors will yellow under sun exposure; for light colors it is recommended to apply a top coat of a UV resistance PU coating such as *ElastoCrete 302L*, *Elastocrete 4000*, or equivalent. However, bright colors such as green, yellow, and red, will not be noticeably affected by UV radiation.

PHYSICAL PROPERTIES •

Mixed Density	1.3 ± 0.05
Solids Volume ASTM D 2823 - 91	70% ± 5
Application Temperature	12°C to 35°C
Tack-Free Time	2-3 hours at 20°C 1-2 hours at 35°C
Initial Hardness	30 hours at 20°C 20 hours at 35°C
Pot Life	6 hours at 20°C 3.5 hours at 35°C
Full Cure	7 days at 20°C 5 days at 35°C
Shore A Hardness ASTM D 2240 - 91	80
Pull – Off ASTM D 4541 – 85 On concrete On steel	1.2 N/mm ² (CF) 3.5 N/mm ²
Abrasion Resistance (ASTM D 1044-85, CS-17 Wheel 500 gm load)	100 cycles 5 -10 mg 500 cycles 35 - 45 mg 1000 cycles < 90 mg
Flash Point	23°C

CHEMICAL RESISTANCE • Fully cured *EpoCrete 150* samples have been tested for chemical resistance to the following chemicals for 7 days @ 25°C:

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|---------------------|-----------|
| • Gasoline | Excellent |
| • Petrol | Excellent |
| • Diesel | Excellent |
| • Engine Oil | Excellent |
| • Brake Fluid | Excellent |
| • NaOH 20% | Excellent |
| • Sulfuric Acid 40% | Excellent |
| • HCl 40% | Excellent |
| • Acetic Acid 5% | Excellent |

COVERAGE • Application rate will vary according to surface conditions, application technique and job conditions. Coverage rate is approximately 4.5 m²/ kg at 100 microns (DFT) (90 m² per kit).

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 dried. Treat oil or grease contamination with degreaser followed by water or steam cleaning. The substrate must be fine textured since *EpoCrete 150* is applied in a thin coat.

EpoCrete 150 Solvent-Based Epoxy Floor Coating

New concrete floors: should be at least 28 days old and have a moisture content of less than 5%. Excessive laitance should be removed by mechanical methods. Dust and other debris should be removed by vacuum cleaning.

Old concrete floors: damaged areas or surface irregularities should be repaired using *MortCrete 3000*.

Steel surfaces: should be grit blasted to surface quality SA 2 ½.

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 and the two materials mixed thoroughly for at least 3 minutes. Use a heavy-duty slow speed power drill with a jiffy mixing blade. Mix the two components in the quantities supplied taking care to ensure hardener container is scraped clean. Do not add solvent thinners at any time.

APPLICATION • *EpoCrete 150* must be applied in two coats. *EpoCrete 150* should be applied to prepared surfaces using airless spray, brush or roller. Ensure that the area is completely coated. The second coat may be applied as soon as the first coat has dried (typically 12 to 18 hours).

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

STORAGE & SHELF LIFE • Product should be stored at 25 °C in dry conditions and kept away from flame sources. Shelf life is approximately 12 months from date of purchase in tightly closed container at specified storage temperature.

SAFETY PRECAUTIONS • FLAMABLE. Do not expose to sources of flame or ignition. Do not smoke during application or near fresh 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 • 16 L (20 kg) kit (includes hardener and base components).