

# EpoCrete 100W

## Water Based Clear Epoxy



**DESCRIPTION** • *EpoCrete 100W* is a two-component, water dispersible, clear, epoxy coating with excellent resistance to abrasion and moisture.

*EpoCrete 100W* does not contain any volatile organic compounds and is an environmentally friendly coating. *EpoCrete 100W* cures to a glossy and highly abrasion resistant and hygienic film.

**USES** • *EpoCrete 100W* was formulated to provide a hygienic, easy-to-clean, and non-dusting protective coating to concrete surfaces on horizontal and vertical applications. *EpoCrete 100W* may be applied to damp surfaces where a dry substrate may be impossible to obtain. *EpoCrete 100W* has good resistance to chemicals and will not support bacterial growth.

*EpoCrete 100W* is designed as a clear sealer coat on internal concrete applications ranging from commercial to industrial. When diluted with water at 10% by volume, *EpoCrete 100W* may be used as a primer for water-based coatings.

### ADVANTAGES

- ✓ Environmentally friendly – zero VOC.
- ✓ Easy to use and apply.
- ✓ Moisture tolerant.
- ✓ Available clear or in wide range of colors.
- ✓ Water based, 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 up to one hour.

**LIMITATIONS** • Do not apply to new concrete surfaces before they have been allowed to fully set and adequately cured. *EpoCrete 100W* should not be used to fill cracks or holes in the surface. Do not apply if temperature drops below 10°C or exceeds 40°C. As with all sealers, it is highly recommended to apply two coats for full protection. *EpoCrete 100W* is recommended for internal applications only. Do not use on areas subject to negative hydrostatic pressure.

### PHYSICAL PROPERTIES

Mixed Density @ 25°C	1.36 kg/m <sup>3</sup>
Solids Volume	40%
VOC (USEPA 24)	Not detected
Initial Recoat Time	6-8 hrs @ 25°C
Max. Recoat Time	72 hrs. @ 25°C
Full Chemical Cure	7 days @ 25°C

Max. Service Temp.	60°C
Pot Life	60 min. @ 25°C
Dry Film Thickness/coat	30 microns

**COVERAGE** • Application rate will vary according to surface porosity and profile, application technique and job conditions. Coverage is approximately 10-13 m<sup>2</sup>/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.

Concrete surfaces should be allowed to fully set and adequately cured before application of the coating. It is recommended to wash concrete surfaces with clean water and allowed to dry prior to application of *EpoCrete 100W* in order to reduce the surface alkalinity of the concrete. Excessive laitance should also be removed by mechanical methods. Dust and other debris should be removed by vacuum cleaning. Fine cracks, pin holes, and damaged areas may be filled with *MortCrete 3000* or other epoxy-based mortar, but color differences compared to surrounding concrete will be visible. If cement-based materials are used for repair or filling, they must be allowed to fully cure before application of the coating. 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** • 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 100W* 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 by diluting *EpoCrete 100W* with potable water at 10% by volume.

*EpoCrete 100W* must be applied at a minimum total dry film thickness (DFT) of 80-100 microns. For best results, *EpoCrete 100W* should be applied in a minimum of 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 100W* to saturation. Allow to dry over night then sweep of or vacuum excess aggregates then seal with the second coat of *EpoCrete 100W*. 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** • 5-liter pack including base and hardener.