



EpiMax 190

Rapid Set Epoxy System

Description

EpiMax 190 is a recent development in performance epoxy development for rapid installation of industrial flooring. The system can be applied by roller or it can be extended on site with suitable aggregates to provide different application characteristics and greater economy.

EpiMax 190 will be chosen for concrete resurfacing projects that demand an overall 12 hour "shut down to commissioning" operational time frame.

This use of this system can provide significant savings in those applications where any maintenance downtime results in important lost production or revenue.

Advantages

- Rapid hardening
- Excellent adhesion to concrete
- Good chemical resistance
- Good mechanical strength
- Low viscosity
- Extendible with aggregate
- Good low temperature cure
- Solventless

Typical applications

- General construction work
- Food, beverage & retail
- FMCG distribution centres
- Dairy production
- Sugar processing
- Oil & gas production
- Paper manufacturing
- Waste water facilities - clarifiers, effluent tanks, pumps & pipes
- Animal care centres
- Pharmaceutical production
- Municipal waste transfer & disposal
- Mineral processing
- Power generation facilities
- Port & marine operations

Typical properties

- Shelf life: 2 years
- Initial set: 1.5 hours at 25 C
- Tensile strength: 50 MPa
- Compressive strength: 90 MPa
- Work time per pack: 10 minutes maximum at 25 C
- Cure time: 2.5 hours at 25 C
- Adhesion: > Concrete tensile strength
- Compressive modulus: 3.1 GPa

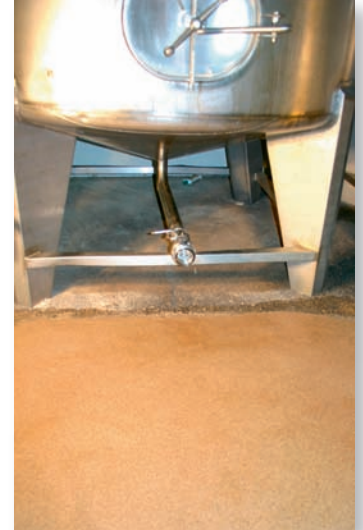
EpiMax 190 will darken in external applications. However, mechanical performance will not be degraded.

Surface preparation

Concrete should be at least 28 days old and free of additives, curing agents, oils etc. Remove all loose, crumbly and drummy areas to obtain a sound surface. Ensure that surfaces are free of dust, oil and grease.

Prepare concrete by professional diamond grinding or captive blast cleaning as applicable to exceed CSP 3 Standard.

Prepare steel surfaces in accordance with AS 1627-2002. Always confirm preparation adequacy.



Roller application

Priming is always recommended. Prime prepared surfaces at an application rate of 5m²/litre using a medium nap roller and scatter the newly primed surface with selected aggregate.

After hardening, remove excess aggregate and seal the surface with freshly mixed EpiMax 190.

Rapid structural concrete resurfacing

EpiMax 190 can be used to quickly resurface many forms of structural concrete. Correctly applied, the completed repair will demonstrate higher strengths than the original structure.

Prepare a trowellable mortar by mixing 1 volume freshly mixed EpiMax 190 and 3 volumes of suitable aggregate.

Quickly place this mortar over the freshly primed areas and trowel to a smooth finish. Minimise air entrapment. Since this mortar will exhibit excellent adhesion, always remove splash and spatter from adjacent surfaces before hardening occurs.

Packaging

EpiMax 190 is available in 10 litre packs (includes Hardener, Compound - Aggregate is additional). It is pre-packaged in correct proportions for use.

Ordering Information: EpiMax 190 20 litre # 9019010

Safety precautions

Read **Material Safety Data Sheet** before commencing any application.

Keep away from children. Avoid contact with skin and avoid breathing vapour.

Always provide adequate personal protection (gloves & goggles etc) during use.

Always provide adequate ventilation, especially in confined spaces.

If poisoning occurs, call Doctor or Poisons Information Centre. Phone 13 11 26.

If swallowed, DO NOT induce vomiting. Give plenty of water or milk.

If skin contact occurs, quickly remove contaminated clothing and wash affected areas thoroughly with soap and water.

TDG Code, EpiMax 190: Hardener -UN 1760.

Compound -Not Classified. Aggregate -Not Classified

