

CONSEAL P

EPOXY PRIMER-SEALER FOR FRESH WET CONCRETE

CONSEAL P is a unique two-pack, low solvent epoxy primer sealer that can be applied to concrete immediately after it has been laid. CONSEAL P has a unique formulation that gives it the ability to mix with fresh wet concrete while still being resistant to diffusion of water through the uncured coating.

CONSEAL P will penetrate and seal moisture into the concrete so that it is available to react with the cement causing it to fully cure, even outdoors in extremely hot, dry conditions.

When CONSEAL P and the cement in the concrete substrate cure, they chemically react together ensuring that the CONSEAL P is permanently bonded to the concrete. The cured surface is far harder and more durable than concrete treated with conventional coatings in the usual way. CONSEAL P also eliminates all floor preparation work and enables rapid job completion.

CONSEAL P can be applied to reinforced concrete as soon as the formwork has been removed. CONSEAL P can also be applied to old concrete that has been suitably prepared. It will disperse surface water and the water content of the substrate will have negligible effect on CONSEAL P's excellent adhesion.

CONSEAL P can be over-coated as soon as it is touch dry, usually between 6 and 12 hours, depending on the ambient temperature. Faster curing hardener is available for use in cold conditions or when rapid completion is required.

The table below shows that one coat of CONSEAL P will reduce the water loss of a cement moulding by at least 94%.

**Water loss of 3 : 1 Portland cement sample cast in metal tray 25 mm deep at 50°C.
Samples cured for 90 minutes at before coating. Water loss in mg/cm²**

	1 hour	2 hours	4 hours	8 hours	24 hours	7 days
Uncoated	60	200	267	300	340	420
1 coat CONSEAL P	3.23	3.5	4.2	6.1	9.15	14.2

ADVANTAGES

- **Can be applied to fresh wet concrete.**
- **Eliminates all surface preparation.**
- **Promotes full cure in hot conditions by eliminating water loss.**
- **Prevents dusting of the concrete surface caused by drying out.**
- **Excellent adhesion to fresh uncured or dry old concrete.**
- **Quick cure allows fast over-coating and finishing of floors.**
- **Allows moisture sensitive polyurethane coatings to be applied within 24 hours of pouring.**
- **Provides superior adhesion for finishing systems.**
- **Easy to use and fast to apply.**
- **Solvent free.**
- **Safe non-toxic formulation.**

APPLICATION INSTRUCTIONS

PREPARATION. Freshly laid concrete requires no preparation but surface water must be allowed to evaporate before application of CONSEAL P. Old concrete must be thoroughly prepared by mechanical or chemical cleaning to achieve a clean sound surface for application of CONSEAL P. It is essential that all oil, grease and other contaminants are removed and treatment with acid etching solution or shot-blasting is beneficial if the surface is powdery.

MIXING Epoxy resins and hardeners must be thoroughly mixed in the correct ratios to ensure complete curing of the product. Each can of CONSEAL P is supplied with the correct amount of hardener all of which must be added to the can of resin and mixed well immediately before use. Do not try to accelerate or retard setting of the material by varying the amount of hardener used, as this will cause the coating to set at all, or to prematurely fail. Thorough mixing is also critical to the correct curing of the product and although small packs can be mixed by hand, a spiral mixer used in a pneumatic or cordless drill is essential for mixing larger packs. Once mixed CONSEAL P will remain usable for between 30 and 90 minutes, depending on the ambient temperature. Pot life can be extended by pouring the mixed material into trays which will allow the exothermic heat generated by the curing reaction of the resin and hardener to dissipate. If a small amount of material is required the components must be accurately weighed in the proportions shown on the hardener label. In cold weather up to 10% Syntac solvent may be added to reduce the viscosity of the material. Do not over-thin.

APPLICATION. CONSEAL P may be applied by any method. If spray application is used CONSEAL P may be applied to fresh concrete immediately any surface water has dispersed. If CONSEAL P is applied by brush or roller the concrete must be allowed to cure sufficiently to resist the agitation of the concrete caused by the application tools. CONSEAL P should be applied liberally and evenly in order to completely coat the surface. If the product thickens during application add a small amount of Syntac solvent to reduce the viscosity. The viscosity is correct when the product is easy to apply and quickly flows to a smooth finish.

OVER COATING. CONSEAL P can be over-coated when touch dry, usually within 6 to 12 hours, depending on the ambient temperature. If floor coverings such as vinyl tiles are to be laid it is advisable to apply two thin coats of CONSEAL P to ensure an even coverage. The floor covering can be laid immediately the second coat of CONSEAL P has hardened. Alternatively, if a hard wearing epoxy finish is required, apply two coats of CONSEAL TSF, LSC or LS over the CONSEAL P.

The moisture transmission rate of CONSEAL P is very low and the excess water in high slump concrete will take a long time to escape. CONSEAL P should be only be applied to correctly proportioned concrete with minimum excess water.

SPECIFICATION	
Type	Two pack solvent free epoxy
Pot life	1.5 hours
Mix ratio	4 parts resin : 1 part hardener, by weight
Application methods	Brush, roller or spray
Pack sizes	1, 2.5, 5 and 15 litres
Coverage	5 - 6 m ² per litre depending on the surface texture
Minimum cure temperature	5° C
Colours	Pale grey, or mid grey. Other colours available to order.

[Please visit our web site at www.reactiveresins.com](http://www.reactiveresins.com) for details of our other products. They include resins and coatings for marine and industrial applications.