

## 779-000

### Polyurethane Concrete Floor Seal

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#### PRODUCT DESCRIPTION AND USES

A single pack moisture curing polyurethane pre-polymer. The pre-polymer converts to a tough flexible film over a wide range of temperatures and humidity after exposure in thin films for 6-8 hours. Primary use is as a membrane to control evaporation of moisture from the substrate of new concrete, and thus to increase strength. This membrane effect is of great importance, but the value of 779-Polyurethane Concrete Floor Seal as a sealer and binder of older concrete surfaces should not be underestimated as a coating will strengthen a dusting surface making it easier to keep clean, and reduce penetration of stains.

The type of industries which would benefit from this type of sealer:

Food preparation areas	ease of cleaning
Printing plant floors	non dusting
Automotive Engineering	non dusting and non staining
Computer floors	Moisture control

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#### PHYSICAL PROPERTIES

Colour/Texture	Clear satin sheen
Volume Solids	20%
Product Density	Approximately 0.9kg/litre
Potlife	Variable
Drying Time	Touch Dry: 1-2 hours depending on substrates, porosity and weather conditions.
Recoat Time	Normally a single application is sufficient but if it needs a further coat leave for approximately 8-12 hours depending on porosity of the surface and weather conditions.
Flash point	27°C

NB: Product cures by moisture, and therefore containers should have the lid replaced immediately after use. Part containers may thicken and harden due to air entrapment. Every attempt should be made to use within 24 hours of opening.

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#### SURFACE PREPARATION

This product is designed for new or old uncoated concrete. Any very smooth surfaces may require hydrochloric etching to open pores of the concrete surface to attain maximum adhesion. Caution should be exercised in using etch as it is a metal corrosive, and eyes and skin should be protected.

Use with adequate ventilation.

Allow surface to dry, and remove all contaminants before applying the coating.

Designed for application by roller (12mm lambswool sleeve).

A single coat is recommended, and if the surface of the floor is very porous it is better to use a roller sleeve with a deeper pile to apply more with one coat.

NB: Concrete floors can be coated as soon as the surface moisture has disappeared, but areas open to the weather should not be coated.

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Recommended D.F.T	15-20 microns
Recommended W.F.T	35-40 microns
<b>Theoretical Spreading Rate</b>	Approximately 14-15m <sup>2</sup> /litre depending on porosity of surface and weather conditions
Thinners	K9 or Fina Clean. Roller sleeves should be immersed completely to prevent drying between applications.

NB: Although it may be used for exterior exposure as a curing membrane Concrete Floor Seal is not recommended as a clear exterior long term sealer. Polyurethane Concrete Floor Seal will yellow and darken when subjected to UV rays. Do not use on coloured concrete driveways. For concrete drives refer to 730- Acriseal specification sheet. For more severe environments refer to 4.60 Epoxy Finish.

#### HEALTH AND SAFETY

**Irritant** Avoid contact with skin and eyes. Avoid breathing vapour or sanding dust. When using this product it is recommended that full overalls, gloves, face mask and goggles be worn. Store container in a safe place when not in use. Do not burn container.

#### FIRST AID

**EYES** Flush with water for at least 15 minutes and seek medical advice.  
**SKIN** Wash contact areas with soap and water. Remove all contaminated clothing, and seek medical advice. Do not scrub.  
**INHALATION** Remove patient from further exposure, and keep patient warm and comfortable.  
**INGESTION** Do not induce vomiting. Rinse mouth with water. Seek medical advice as soon as possible.

#### TRANSPORTATION AND DISPOSAL

**Class** 3  
**Hazchem Code** •3YE (3); •3Y  
**UN No** 1263  
**Packing Group No** III  
**Fire Extinguishing Media** CO<sub>2</sub>, Foam, Dry Chemical  
**Fire Fighting Procedure** Fire fighters should wear self contained breathing apparatus. Fight fire from a protected location as product may explode on heating. The vapours are heavier than air, so may travel along the ground to accumulate in low areas. Fire may flash back along vapour trail, and can also react with oxidising agents.  
 Spills should be cleaned up immediately by using sand or other non-flammable absorbent materials. Ensure material does not enter waterways.  
 Dispose of empty containers in accordance with local by laws.

#### OTHER INFORMATION

This product may be used for a wide variety of surfaces. If the surface you propose to paint is not referred to, contact Protective Paints Technical Department for classification.

For further technical information please phone 0800 724 684.

#### RELIABILITY OF INFORMATION

All statements and technical information contained herein are based on tests we believe to be reliable but the accuracy thereof is not guaranteed. Since Protective Paints Ltd has no control over product application, purchasers and users must confirm the suitability of our products under their conditions to meet their own requirements.

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