

URETHANE COATINGS

POLYURETHANE SPECIALISTS SINCE 1979

TECHNICAL DATA SHEET

COATING CONCRETE FLOORS with MONOTHANE

MONOTHANE IS FOR INTERNAL APPLICATION ONLY

The key to success in coating concrete floors is the preparation. Unfortunately, some old floors that are heavily contaminated with oily substances are probably not worth the trouble of coating with any coating because it is virtually impossible to completely remove some contaminants.

New Concrete Floors:

Ideally, a curing period of one month per 25mm of concrete should be allowed before attempting to coat the floor. However, this is often impractical, and in the majority of cases concrete floors are successfully coated before the moisture content of the concrete has fully normalised. As a guide a moisture content up to 10% is preferable.

When coating steel trowelled concrete floors that are highly finished and appear to have low porosity it is often worthwhile to acid etch the floor with a dilute solution of Hydrochloric Acid. Allow 1-2 days for the floor to dry.

APPLICATION

Old Floors:

Thoroughly degrease and clean the floor. It may be necessary to apply degreaser more than once to remove stubborn oily substances. Acid etch the floor with dilute Hydrochloric Acid. Allow 2-3 days for the floor to dry. It may be necessary to 'grind' the floor to remove any previous coatings and/or any significant surface imperfections.

New Floors:

Thoroughly clean the floor. If the floor has been highly finished (trowelled to a very smooth finish), acid etch the floor with dilute Hydrochloric Acid. Allow 2-3 days for the floor to dry. If a pebble/aggregate texture is required, grind off the top skin (layer) of sand/cement.

TWO METHODS OF APPLICATION MAY BE USED:-

Method 1:

Add Urethane Coatings THINNERS in the ratio of up to 1 part Thinners to 4 parts MONOTHANE. Using a 10-12mm nap roller, apply a heavy coat over the floor. Allow the MONOTHANE to dry to a tack free stage, that is, it may be walked on without sticking to shoes (typically this will take 1 to 1.5 hours @ 25°C and 50% relative humidity). Apply a second heavy coat of MONOTHANE straight from the can. Do not delay recoating more than 3-4 hours, otherwise the second coat will not 'cross link' (Chemically bond) to the first coat.

Two coats will provide a well-sealed finish, however if an extremely durable, high gloss finish is required (or if a reduced sheen is required [Semi-gloss, Satin or Matt]), allow overnight to dry and apply a third coat. In this situation, 'buff' off any surface imperfections with a #150 grit screen-back,

vacuum thoroughly and apply the third coat (Gloss, Semi-gloss, Satin or Matt) straight from the can. Apply the third coat with a 6mm nap mohair or micro fiber roller or lambs-wool applicator.

Method 2:

Use a pressure pot to spray MONOTHANE to the floor. MONOTHANE should be reduced with Urethane Coatings THINNERS to spraying consistency, and applied as heavily as possible without forming puddles. Recoat within 3-4 hours.

Two coats will provide a well-sealed finish, however if an extremely durable, high gloss finish is required, allow overnight to dry and apply a third coat. In this situation, 'buff' off any surface imperfections with a #150 grit screen-back, and vacuum thoroughly. Reduce MONOTHANE and spray as detailed above.

If a reduced sheen MONOTHANE is preferred, apply the third coat straight from the can using a 6mm nap mohair or micro fiber roller or lambs-wool applicator.

N.B. MONOTHANE Semi-Gloss, Satin or Matt can be applied via a pressure pot, however as the product is thinned and as the process dries quickly, the sheen will be glossier than if applied with a 6mm roller. Furthermore, it is essential to produce a very even coat for a consistent sheen level.

Clean Up:

Clean all equipment thoroughly with Urethane Coatings CLEANING SOLVENT.

Coverage:

First coat; 5-7m² per Litre.

Second and subsequent coats; 8-10m² per Litre.

Warranty:

Written claims to be made to seller within 7 days of goods received. Urethane Coatings (UC) warrants its' products to be free of defects in materials, and within their manufacturing specification but makes no warranty as to application and installation. As methods of application and on site conditions are beyond the manufacturers' control and can affect performance, UC makes no other warranty, expressed or implied, including warranties of merchantability and fitness for a particular purpose. Urethane Coatings' sole obligation shall be, at its option, to replace, or refund the purchase of the quantity of Coatings proved to be defective and UC shall not be liable for any loss or damage including incidental or consequential damages arising from the use of UC products.

Notice to Readers

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End of Technical Data Sheet