



# High Performance Paint Product Data Sheet



## MC POLYURETHANE

53-610 JUN 09



**DESCRIPTION:** A single pack moisture cured urethane. Clear.

**TYPICAL USES:** Concrete, particle board and wooden floors.

**PERFORMANCE:** Fast cure at room temperature.  
Easy to apply. High Gloss. Excellent flexibility, toughness,  
chemical and abrasion resistance.

**LIMITATIONS:** Only recommended for interior application, do not  
use outside.

Yellows over time with age. Do not use on light coloured surfaces.  
Do not recoat if longer than 7 days between coats. Solvent has a  
strong odour. Flammable. Use adequate ventilation.

**TECHNICAL DATA:**

Resin:	Moisture cured urethane
Solvent:	Xylene
Finish:	Gloss (80%+ @ 60°)
Colour:	Clear
Touch Dry (minimum):	4-6 hours @ 20°C.
Recoat Time (minimum):	Overnight
Primer:	Not required
Number of Coats:	2-4
Dry Film Thickness:	50 microns (approx.)
Wet Film Thickness:	
Durability:	Very good
Thinning and Clean Up:	Moisture Cured Thinners
VOC:	
Pot Life:	Not Applicable
Pack Size:	1, 4, 20 Litre

**SPREAD RATE:**

Theoretical Coverage: 8 m<sup>2</sup>/litre/coat.  
Coverage depends on surface profile and porosity.

**COMPUTER CODES:**

MC Polyurethane 53-610

Coating Technologies Limited, 16 Aetna Place, Henderson, Auckland, New Zealand

Phone: 0064 9 837 0897 Fax: 0064 9 837 3736 [www.cotec.co.nz](http://www.cotec.co.nz)

Technical information given verbally or in writing is based on knowledge and research, given in good faith and believed to be reliable, but no guarantee of accuracy is made or implied. Since methods and conditions of use are beyond our control, all merchandise is sold and received subject to the condition that our liability whether express or implied for any defect in quality, or for any lack of fitness for the specified use thereof, is limited to the return of the purchase price if written claim is made within 14 days from the date of delivery. It is recommended that the user makes his or her own tests to determine the suitability of the product for his own requirements. Freedom from patent restrictions is not implied.

# MC POLYURETHANE

## **SURFACE PREPARATION:**

(Refer to "Surface Preparation and Paint Systems" for full details). To ensure a successful application all surfaces to be coated must be clean, dry and stable.

All cracks and joints need to be treated as appropriate to suit the situation. Do not expect paint to bridge moving cracks/joints successfully.

Any mould, moss, algae needs to be treated with a suitable chemical cleaner/inhibitor.

Ensure surfaces are free from oil, grease and any surface contamination. Use commercial detergent/alkali cleaner, not acid wash.

Note: Commencement of work on a surface means in general you accept that surface. If any doubt about condition etc, seek advise.

## **WOOD:**

Sand surface finish, with 220# grit sand paper to provide good adhesion.

Fill any knots, holes, gouges etc with suitable (tinted) wood filler, allow to set, then sand, in accordance with manufacturer's recommendations. Thoroughly clean to remove dirt, dust.

## **OLD SURFACES:**

Remove oil, grease and dirt. Wax should be removed with a commercial wax remover followed by rinsing.

## **CONCRETE:**

Floors should be etched using a commercial etching system. Use CONCRETE ETCH 10%, see data sheet for all information. Ensure fully dry before applying MC POLYURETHANE.

## **APPLICATION:**

As MC POLYURETHANE cures by the absorption of water, therefore care must be taken NOT to inadvertently introduce water into the full container. If this occurs the contents will gel and be unusable. Always pour enough material for the job into another clean container. DO NOT pour unused product back into the original cans.

Roller: Use a mohair (5mm nap).

Brushes or squeegee: May also be used. Apply the material generously, but avoid allowing the material to puddle.

First coat should be allowed to flow and level, then leave to dry overnight. Lightly sand off any nibs and bits. Vacuum clean or use slightly damp rag to remove dust. Dry and apply a further 2 coats minimum to achieve a satisfactory film build. A further coat (total 4) gives a deeper gloss finish.

Only apply in thin films as thick films may result in bubbling.

In normal conditions, relative humidity of 70% and temperatures of 20-25°C are ideal for application. Drier conditions will require longer times for full cure to be reached.

Note: If left longer than 3 days between coats surface must be re-sanded to provide a key to the surface.

## **THINNING & CLEAN UP:**

Use MOISTURE CURED THINNERS. Product cures by fast reaction with moisture in air. Quickly clean tools after use before they harden. Several washes of fresh solvent may be necessary. After clean up, wash with warm soapy water.

## **ENVIRONMENTAL:**

This formulation uses the latest technology with low toxicity, ensuring environmental issues are not compromised. DO NOT POUR paint or wash down storm water or water courses. ALWAYS dispose of in accordance with local Government regulations. Soak up spills with absorbent material and dispose of properly. If spraying use suitable respiratory protection. Refer to the MATERIAL SAFETY DATA SHEET.