



# PU51

Highly durable and abrasion resistant polyurethane coating.

## DESCRIPTION

PU51 is a waterborne polyurethane coating that uses European polyurethane technology to produce a tough film that has excellent abrasion and stain resisting properties. PU51 has been specifically developed to be used on concrete or as a topcoat over Crommelin<sup>®</sup> WB2K or Crommelin<sup>®</sup> Rocfloor<sup>®</sup>. PU51 dries quickly and cures rapidly without emitting toxic fumes or leaving lingering unpleasant odours.

## ADVANTAGES

PU51 delivers the following advantages;

- Excellent stain resistance.
- Outstanding adhesion.
- High abrasion resistance.
- Non-yellowing.
- Quick drying – 2 coats applied in one day.
- Non-flammable.
- Very low V.O.C's. and low odour – allows for safe interior use.
- Low sheen finish.

## AREAS OF USE

PU51 is suitable for use in the following areas;

- Factory Floors
- Warehouse Floors
- Commercial Floors

**Note: rubber materials placed on concrete sealed with PU51 can cause plasticizer migration. Refer to the 'Precautions' Section on Page 2 for further information.**

## SUBSTRATES

PU51 is suitable for application on;

- Concrete
- Fibre Cement
- Crommelin<sup>®</sup> WB2K
- Crommelin<sup>®</sup> Rocfloor<sup>®</sup>

## TECHNICAL DATA (@ 25°C)

Number of Coats:	2
Coverage: (per coat)	6m <sup>2</sup> / L
Wet Film: (per coat)	166 microns
Recoat:	2 hours
Full Cure:	7 days
Colour:	Clear
Thinner/Clean Up:	Water
Shelf Life:	12 months

## ANCILLARY PRODUCTS

- Crommelin<sup>®</sup> Contractor Membrane Applicator Brush – 100mm, 75mm
- Crommelin<sup>®</sup> Contractor Membrane Roller Cover – 230mm
- Crommelin<sup>®</sup> Moisture Meter

## APPLICATION CONDITIONS

- Substrate must be dry. The use of suitable moisture meter is recommended.
- Application temperature must be above dew point.
- Do not apply if relative humidity is above 85% during initial cure phases, or if rain is expected before cure.

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## SUBSTRATE PREPARATION AND PRIMING

Full substrate preparation instructions can be found at [www.crommelin.com.au/full-instructions/](http://www.crommelin.com.au/full-instructions/)

- Surfaces must be clean and free from all contaminants.
- Use Crommelin® HD Cleaner to remove grease, and as a general surface cleaner.
- Pressure washing or the use of a wet vac is recommended to remove dust etc.
- If acid etching has taken place, ensure neutralisation of the area and thorough rinsing has been conducted.
- Surfaces must be well consolidated and sound.
- Surfaces must be dry. The use of a Crommelin® Moisture Meter is recommended.
- A simple moisture test may be completed by placing a 300mm x 300mm piece of black plastic or rubber matting on the area to be treated during the hottest part of the day. Remove after 2 hours and inspect. If moisture is present on the under-side of the plastic, or the substrate has darkened, the substrate is too wet to seal. Allow further time to dry and repeat test until no moisture is detected.
- If area has been previously sealed, ensure coating compatibility. If in doubt, remove existing coating.
- If area has been previously sealed, ensure re-coating will not produce an excessive film build that may compromise the breathability of the substrate.

## APPLICATION

Full application instructions can be found at [www.crommelin.com.au/full-instructions/](http://www.crommelin.com.au/full-instructions/)

- Ensure system to be top coated is dry.
- Apply 2 undiluted coats of PU51 at the rate of 6m<sup>2</sup>/L.
- Allow to dry.
- An additional coat of PU51 will increase the gloss level, do not exceed three coats.

## CLEAN UP

- Uncured material may be removed with warm water and detergent.

## MAINTENANCE SCHEDULE AND REPAIR

To maximise the natural life and protective characteristics of your sealer, general cleaning and maintenance should be followed including;

- Any spills must be cleaned up immediately. Spot cleaning should be carried out with dilute detergents.
- It is recommended that areas treated be scrubbed or mechanically cleaned monthly using appropriate mild cleaning fluids.
- The placement of mats at all entry and exit points is recommended.
- Repair damage by ensuring the area is clean and dry and apply sealer as per recommended coverage rates.
- Re-coating should only take place as required to maintain the greatest level of performance. Re-application requirements will vary, dependent upon substrate, wear and site conditions.
- When over-coating or re-coating, always ensure product compatibility.

## PRECAUTIONS

- Caution - rubber materials placed on concrete sealed with PU51 can cause plasticizer migration. Plasticizers are polymer compounds added to rubber and plastic materials to make them softer and more flexible. Car tyres, rubber mats, rugs with rubber backing, weatherstripping on the bottom of garage doors, and rubber tyres on equipment are just a few of the items that can cause problems. These and other rubber items may stick or cause discolouration when left to sit on concrete sealed with PU51.
- Do not apply if the surface temperature is below 10°C or relative humidity is above 85% or if rain is imminent.
- Ensure adequate ventilation and air flow to optimise curing.

## WARRANTIES

Please contact your Crommelin® representative, or the Crommelin® technical support team for detailed specifications applicable to your project and warranty requirements.

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## TRANSPORT AND STORAGE

- Size: 15L
- Weight: 16kg
- DG Class: N/A
- Flash Point: N/A
- UN Number: N/A
- Cool and dry storage

## SAFETY AND FIRST AID

PU51 Safety Data Sheet is available from Crommelin® upon request.

### Safety

- Ensure good ventilation and avoid breathing vapours.
- Avoid skin and eye contact. Wear gloves and eye protection. Remove splashes on skin immediately and remove contaminated clothing.
- Keep out of reach of children.
- Keep container sealed when not in use.
- Do not swallow.

### First Aid

- If poisoning occurs, contact a doctor or poisons information centre: Ph. 13 11 26.
- If swallowed, do not induce vomiting. Give a glass of water to drink.
- If in eyes, hold eyes open and flood with water for at least 15 minutes.
- If not breathing, apply artificial respiration.

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Any advice, recommendation, information, assistance or service provided by Crommelin® in relation to its products or their use is given in good faith, however is provided without responsibility or liability.

Customers need to undertake their own assessment to determine the suitability of a product for the intended use. As the performance of any product is subject to a wide variety of different surface types as well as environmental and surface-specific conditions, it is essential that a sample of the product be applied to the intended area of use to ensure it is acceptable in appearance and finish and that it performs as required on the specific surface.

Crommelin® also reserves the right to update information without prior notice, to reflect ongoing research and product development.