

COLOURTHANE® C-SERIES TOPCOAT

TM2.30

Description

- An ultra-premium, two-pack recoatable isocyanate-cured, acrylic polyurethane clear finish.
- Conforms to AS/NZS 3750.6.

Product Characteristics

- Excellent colour and gloss retention.
- Excellent resistance to exterior exposure.
- Superior colour reproducibility through intermix tinting system.
- Tough, flexible and abrasion resistant.
- Unlimited recoatability with suitable preparation.
- High opacity white available for improved coverage.
- Range of hardeners and thinners available to provide flexibility in application.
- Resistant to splash of mineral and vegetable oils, white spirit, paraffins and aliphatic petroleum products.
- Resistant to splash of mild chemicals.
- Can be air dried or force dried up to 60°C on metal to improve throughput.
- Note: We advise that you test this product to determine if it is suitable for your particular use.

Colours and Gloss

- AS2700 Colour Card, high opacity white, jet black, coarse and fine metallic colours - full gloss.

Recommended Film Thickness (Per Coat)

	Minimum	Maximum	Typical
Dry film thickness (µm)	25	35	25
Wet film thickness (µm)	65	87	65
Theoretical spreading rate (m ² /l)	16	11.4	16

Basic Data at 25°C

Solids content approx.	40% by volume
Mix ratio	2A:1B by volume
Dust free	30 mins (standard hardener)
	15 mins (fast hardener)
Touch dry after	5 hours (standard hardener)
	3 hours (fast hardener)
Full cure	7 days

Recommended Substrate Conditions and Temperature

- Best coating performance will be obtained with the highest degree of surface preparation.
- Degrease thoroughly to remove all oil, grease and other surface contaminants.
- Mild steel; remove all rust and any loose material by wire brush or mechanical sander, prime with Colourthane PF330 Primer Filler.
- Non-ferrous metals, stainless steel, galvanised iron, ZINCALUME®, abrade using a Scotch-Brite® pad or wet and dry sandpaper. Do not use steel wool. Prime with Wattyl Super Etch® Primer.
- Colourthane C-Series can be applied to suitable existing finishes, provided they are degreased and sanded.
- Laminates (eg. Laminex®); mechanically sand with 320-400 grade abrasive.

Application Instructions

- Mixing ratio by volume: 2A:1B.
- Mix Colourthane C-series Part A with Colourthane C-series Standard (Std), Fast or Slow Part B only
- Induction time – none.
- Pot life at 25°C 4 hours for Standard (Std) Part B, 2 hours for Fast Part B. Do not use after this time even if the mix is still liquid.
- Stir the components and mixed product well using a mechanical mixer.
- Thinning recommendations are given as a guide and may vary depending upon substrate temperature and weather conditions.
- For best results it is recommended to use slow reducer above 25°C and standard reducer below 20°C, blends of the two reducers can be used for intermediate temperatures.
- The temperature of the mixed product must be above 15°C, otherwise extra thinner may be required to obtain application viscosity.
- Too much thinner will result in lower sag resistance and slower cure.
- Thinner should only be added after mixing the components.
- Freshly catalysed material should not be added to product that has been mixed for some time.
- Recoat times for wet on wet; allow for a flash-off time of 5-10 mins between coats, can be recoated within 8 hours without sanding. If recoating after 8 hours sand with P320 – P400 between coats. If higher gloss is required, a coat of Colourthane C-Series Clear may be applied as soon as the colour is dust free. If applied after the coating is hard dry, sand with P400 – P600 before clear coating.
- For recommendations outside those contained in this data sheet, refer to Wattyl.

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Application Methods

	AIRLESS SPRAY	AIR SPRAY
Recommended thinner	Colourthane Reducer or Thinner L748	Colourthane Reducer or Thinner L748
Volume of thinner	0-5%	0-10%
Tip	0.28mm (0.011 inch)	1.2- 1.5mm (0.047-0.059 inch)
Fluid/Atomised pressure	15 MPa (2100 psi)	0.3-0.4 MPa (50-60 psi)

CLEANING SOLVENT

Colourthane Reducer or Thinner L748

Reducer Guide

Temperature	<15°C	20°C	25°C	30°C	>35°C
Colourthane Reducer Fast	■	■			
Colourthane Reducer Standard		■	■	■	
Colourthane Reducer Slow Thinner L748			■	■	■

Safety Precautions

- Flammable. Avoid contact with heat and naked flame.
- Avoid contact with skin and eyes.
- Use gloves, mask and goggles during application.
- Provide adequate ventilation when using in confined spaces.
- Contains 0.028% monomeric diisocyanate when mixed. Provide adequate ventilation during use. Breathing the vapour is dangerous. Avoid prolonged breathing of fumes. Where ventilation is poor or where applied by spray, use suitable respiratory equipment at all times.
- This product is intended for use in industrial situations by professional applicators in accordance with the advice given on this sheet. All work involving the use and application of this product should be carried out in compliance with all relevant Health, Safety & Environmental standards and regulations and must not be used without reference to the safety data sheet (SDS).

Additional Data

CURING TABLE

Curing table – using Standard Part B

Substrate temperature	Dust free	Touch free	Dry to handle	Hard dry	Ready to sand
15°C	50 mins	6 hrs	16 hrs	24 hrs	20 hrs
25°C	30 mins	4 hrs	12 hrs	20 hrs	16 hrs
60°C	5 mins	15 mins	40 mins	50 mins	45 mins

Curing table – using Fast Part B

Substrate temperature	Dust free	Touch free	Dry to handle	Hard dry	Ready to sand
15°C	25 mins	4 hrs	8 hrs	16 hrs	12 hrs
25°C	15 mins	2 hrs	6 hrs	10 hrs	8 hrs
60°C	5 mins	10 mins	20 mins	25 mins	20 mins

- Adequate ventilation must be continuously maintained during application and curing.

POTLIFE TABLE

Potlife Table for Colourthane C Series (at application viscosity)

Paint temperature	Standard Part B	Fast Part B
15°C	5 hrs	2.5 hrs
25°C	3 hrs	1.5 days
35°C	1.5 hrs	45 mins

Precautions

- This product is intended for use in industrial situations by professional applicators in accordance with the advice given in this document and the safety data sheet (SDS).
- The nature of this product is such that colour variations may occur depending on the application method used.
- For recommendations outside those contained in this data sheet, refer to Wattyl.

Storage and Packaging

- Shelf life at least 12 months.
- All components shall be stored in a dry internal environment at between 5°C and 35°C.
- Packaging :
4 litre & 20 litre Part A, 2 litre & 5 litre Part B
- Product line: 1625

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