



COLOURTHANE® S-SERIES CLEAR TOPCOAT

TM9.31

DESCRIPTION

- an ultra-premium, two-part isocyanate cured, polyester polyurethane clear finish for interior timber

PRINCIPAL CHARACTERISTICS

- offers high build with excellent edge-coverage plus outstanding feel and appearance
- fast stack-ability, especially when using hardener fast
- exhibits a tough, flexible film when fully cured
- excellent flow and levelling
- soft feel satin finish
- ideal for interior timber surfaces where exceptional appearance, surface smoothness and resistance to wear is required, such as kitchen cabinets, panelling, furniture, shop fittings etc.
- range of hardeners and thinners available to provide flexibility in application
- resistant to splash and spillage of common household chemicals such as nail polish, vegetable oil and alcohol beverages etc.

Note: We advise that you test this product to determine if it is suitable for your particular use.

COLOURS AND GLOSS

- clear
- satin (30%) (Colourthane S-Series S130)
- high satin (50%) (Colourthane S-Series S150)
- gloss (95%) (Colourthane S-Series S195)
- intermediate gloss levels may be achieved by blending 30% and 95% together
- low gloss levels may be achieved by blending 30% with Watty Industrial Matting Agent 600 (refer below)

BASIC DATA AT 25°C and 50% RELATIVE HUMIDITY

- vehicle type polyester polyurethane
- mix ratio 2A:1B by volume
- typical film thickness (per coat) 25-35 microns (dry), 75-100 microns (wet)
- solids content approx. 40% by volume
- theoretical spreading rate 16 m²/L for 25 microns (dry)

Mixed with Colourthane S-Series Standard Part B (for other Part B's refer to tables below)

- dust free 20-30 minutes
- print free 2 hours
- pot life 6 hours (20% thinner)
- full cure after 7 days
- recoat time refer to instructions for use
- shelf life (cool, dry place) at least 12 months in unopened container

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURE

- all surfaces must be free from wax, silicone, oil and other contaminants
- fill holes and minor imperfections with Watty Full Stop Timber Putty
- sand smooth with 180-240 grade fre-cut paper, and remove all sanding dust
- if required, stain the surface using Watty Craftsman® Dye Stain Fast, Slow or Craftsman Pigmented Stain
- Do not use Woodgrain Filler under Colourthane S-Series or C-Series Topcoats or Colourthane SE200 Clear Polyurethane Sealer
- filling/sealing, apply 1-2 coats of Colourthane SE200 Clear Polyurethane Sealer to the desired wet film thickness. Allow to dry, and sand (refer to the relevant data sheets for further details on sealer application and sanding recommendations)
- Colourthane S-Series Clear may be used as a self-sealer, but better sanding and grain filling will be achieved by using Colourthane SE200 Clear Polyurethane Sealer
- relative humidity should not exceed 75% during application and before the dry to handle time



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INSTRUCTIONS FOR USE

- mixing ratio by volume: 2A:1B
- cure with Colourthane S-Series Part B's only
- induction time- none
- potlife at 25°C thinned 20% - 6 hours (standard Part B), 3 hours (fast Part B), 9 hours (slow 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
- choose the hardener suited to the ambient temperature, use of other hardeners may result in minor gloss variation due to increased or decreased set up time
- apply two coats by conventional spray
- generally, spray vertical surfaces with a wide fan, building up thin, wet coats, allowing 5-10 minutes flash off time between coats (at 25°C), for horizontal surfaces, higher film-builds may be applied
- recoating is not usually necessary however leave the product overnight for optimal results
- may be recoated, without sanding, up to 16 hours after the first application
- if re-coating is necessary after this time, sand lightly with 800-1200 grade wet or dry between coats
- however care should be taken not to apply excessive builds in a single coat as solvent boil may occur especially in warmer conditions
- sand marks may be removed by using 1200-2000 grade Wet-or-Dry paper, lubricated with soapy water the system may then be polished using a suitable fine, automotive grade polish (after overnight dry) (gloss clear only)
- clears may be blended in any ratio to achieve intermediate gloss levels. For example, adding 1 part 30% clear to 1 part 95% clear gives approximately 70% gloss. Blend clear part A's together prior to adding Part B. Ensure the correct mixing ratio is used
- 30% clear may be blended with WattyI Matting Agent 600 (TM12.40) to achieve lower gloss levels. For example, to achieve 10% gloss blend (by volume) 7½ parts 30% clear with 2½ parts WattyI Matting Agent 600, cure with 5 parts part B
- do not apply or attempt to cure at temperatures below 10°C
- relative humidity should not exceed 75% during application and before the dry to handle time
- **Warning:** Excessive builds on timber can lead to stress-cracking as the timber adjusts to its new conditions of temperature and moisture content. The recommended maximum total build is 150 microns (dry film) for the total system.
- for recommendations outside those contained in this data sheet, refer to WattyI

APPLICATION

- **AIRLESS and AIR-ASSISTED AIRLESS SPRAY**
 - not recommended
- **AIR SPRAY**
 - recommended thinner Colourthane Reducer or Thinner L748
 - volume of thinner up to 20%
 - nozzle orifice 1.2 - 1.6 mm
 - nozzle pressure 210 - 350 kPa(30 - 50 psi)
- **HVLP CONVENTIONAL**
 - recommended thinner Colourthane Reducer or Thinner L748
 - volume of thinner up to 20%
 - fluid nozzle 1.2 - 1.6 mm
 - pressure to the gun 250 - 350 kPa (30 - 50 psi)
 - pressure to air cap 70 kPa (10 psi)
- **CLEANING SOLVENT** Colourthane Reducer or Thinner L748
- **Note:** In warmer conditions, replace some or all of Colourthane Reducer Standard with Colourthane Reducer Slow or Thinner L748 (extra slow). In colder conditions, replace some or all of the Colourthane Reducer Standard with Colourthane Reducer Fast.



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REDUCER GUIDE

	15°C and below	20°C	25°C	30°C	35°C and above
Colourthane Reducer Fast	██████████	██████████			
Colourthane Reducer Standard		██████████	██████████	██████████	
Colourthane Reducer Slow				██████████	██████████
Thinner L748 (extra slow)					██████████

- thinning recommendations are given as a guide and may vary depending upon substrate temperature and weather conditions

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 0.086% 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 Material Safety Data Sheet (MSDS)

ADDITIONAL DATA

CURING AGENT GUIDE

- choose the hardener suited to the ambient temperature, use of other hardeners may result in minor gloss variation due to increased or decreased set up time

	15°C and below	20°C	25°C	30°C	35°C and above
Colourthane Part B Fast	██████████	██████████			
Colourthane Part B Standard		██████████	██████████	██████████	
Colourthane Part B Slow				██████████	██████████

Curing table - using Standard Part B

Substrate temperature	Dust free	Tack free	Dry to handle	Ready to sand	Hard dry
15°C	30 min	50 min	3 hr	6 hr	7 days
25°C	20 min	30 min	2 hr	4 hr	7 days
35°C	10 min	20 min	1 hr	2 hr	7 days

Curing table - using Fast Part B

Substrate temperature	Dust free	Tack free	Dry to handle	Ready to sand	Hard dry
15°C	20 min	30 min	2 hr	4 hr	7 days
25°C	10 min	20 min	1 hr	2 hr	7 days
35°C	██████████	██████████	██████████	██████████	██████████

Curing table - using Slow Part B

Substrate temperature	Dust free	Tack free	Dry to handle	Ready to sand	Hard dry
15°C	██████████	██████████	██████████	██████████	██████████
25°C	30 min	50 min	3 hr	6 hr	7 days
35°C	20 min	30 min	2 hr	4 hr	7 days



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- adequate ventilation must be continuously maintained during application and curing

Pot life when mixed with 20% thinner

Paint temperature	Standard Part B	Fast Part B	Slow Part B
15°C	9 hr	6 hr	
25°C	6 hr	3 hr	9 hr
35°C	3 hr		5 hr

Pot life when mixed with 10% thinner

Paint temperature	Standard Part B	Fast Part B	Slow Part B
15°C	6 hr	3 hr	
25°C	3 hr	1½ hr	6 hr
35°C	1½ hr		3 hr

PACKAGING

Part A 4 litres, 20 litres

Part B 1 litre, 2 litres

For the most up to date information contact Wattyl Customer Service Hotline or visit the Wattyl Website.

CUSTOMER SERVICE HOTLINE
WEBSITE

Australia
132 101
<http://www.wattyl.com.au>

New Zealand
0800 735 551
<http://www.wattyl.co.nz>

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