



# COLOURTHANE® S-SERIES TOPCOAT

TM9.32

## DESCRIPTION

- an ultra-premium, two-part isocyanate cured, satin polyester polyurethane 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
- superior colour reproducibility through intermix tinting system
- ideal for interior timber surfaces where superior appearance 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 alcoholic beverages etc.

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

## COLOURS AND GLOSS

- satin - 30% gloss
- Watty Colour Designer®, Laminex®, Formica and Wilsonart colours, AS2700 colours
- can be formulated to provide customers with their own corporate colour ranges

## 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), 55-80 microns (wet)
- solids content ..... approx. 45% by volume
- theoretical spreading rate ..... 18 m<sup>2</sup>/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
- filling/sealing, apply 1-2 coats of Colourthane UC210 Timber Undercoat or Colourthane PE420 Polyester Undercoat, sand smooth with 320- 400 grade paper, remove all sanding dust
- the appearance of the top-coat depends on the smoothness of the filler/sealer, so care at this stage is of utmost importance
- Colourthane S-Series can be applied to suitable existing finishes, provided they are degreased and sanded
- laminates (eg. Laminex®); mechanically sand with 320-400 grade abrasive
- relative humidity should not exceed 75% during application and before the dry to handle time



### INSTRUCTIONS FOR USE

- mixing ratio by volume: 2A:1B
- cure with Colourthane S-Series hardeners only
- induction time - none
- potlife at 25°C thinned 20% - 6 hours (standard Part B), 3 hours (fast Part B), 9 hours (hardener slow). Do not use after this time even if the mix is still liquid
- potlife is reduced by reducing the thinner quantity, refer to additional data for more information
- 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
- 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 WattyL

### APPLICATION

- **AIRLESS and AIIR-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 0.084% 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     |                |      |      |      |                |
| Thinner L748                |                |      |      |      |                |

### 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   |

- adequate ventilation must be continuously maintained during application and curing



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## 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

Tinters 4 litres

Part A 1 litre, 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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