

DESCRIPTION

- ultra-premium, two component isocyanate cured, direct to metal polyurethane topcoat, with a high gloss finish.

PRINCIPAL CHARACTERISTICS

- excellent colour and gloss retention
- excellent resistance to exterior exposure
- tough, flexible and abrasion resistant
- unlimited recoatability with suitable preparation
- 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

- white, AS2700 Colours
- colours obtained by tinting with Ultratint tinters
- full gloss

RECOMMENDED FILM THICKNESS (PER COAT)

	Minimum	Maximum	Typical
Dry film thickness microns	40	65	50
Wet film thickness microns	77	125	96
Theoretical spreading rate m ² /l	13.0	8.0	10.4

BASIC DATA AT 25°C AND 50% RELATIVE HUMIDTY

- vehicle type..... polyurethane
- solids content approx..... 52 % by volume
- mix ratio 4A:1B by volume
- surface dry after 2-4 hrs
- hard dry after 4-6 hours
- full cure 7 days

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURE

- best coating performance will be obtained with the highest degree of surface preparation
- improved coating performance and increased anti-corrosion protection will be obtained through use of a suitable primer. Refer product compatibility for recommended primers.
- degrease thoroughly to remove all oil, grease and other surface contaminants
- substrate temperature should be at least 3°C above dew point
- relative humidity should not exceed 75 % during application and before the dry to handle time

MILD STEEL, AND IRON

- remove all loose material by wire brush or mechanical sander
- lightly blast or mechanically abrade the entire surface using P80-180 grit paper/disc

GALVANISED STEEL AND ALUMINIUM

- remove all loose material by wire brush or mechanical sander
- lightly blast or mechanically abrade the entire surface using P80-180 grit paper/disc (avoid excess removal of zinc during surface preparation).
- for optimal adhesion or where optimal surface preparation cannot be achieved, Valspar recommends priming with Colourthane Etch Primer or Epiname PR250.

STAINLESS STEEL

- lightly blast using inert grit or power tool clean to achieve a roughened uniform flat appearance

APPLICATION INSTRUCTIONS

- mixing ratio by volume 4A:1B
- mix Colourthane DTM540 Part A with Colourthane DTM540 Part B only
- induction time - none
- pot life at 25°C 1-2 hours. Do not use after this time even if the mix is still liquid
- stir the individual components and the mixed product well using a mechanical mixer
- thinning recommendations are given as a guide and may vary depending upon substrate temperature and weather conditions
- 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
- for recommendations outside those contained in this data sheet, refer to Valspar

APPLICATION METHODS

- **AIR SPRAY**
 - recommended thinner.....Colourthane Reducers
 - volume of thinnerup to 10 %
 - nozzle orifice approx.1.4-1.8 mm
 - nozzle pressure3.0-4.5bar (45-65 psi)
- **HIGH VOLUME LOW PRESSURE (HVLP)**
 - recommended thinner.....Colourthane Reducers
 - volume of thinnerup to 10 %
 - nozzle pressure0.7bar (10 psi) max
- **BRUSH/ROLLER**
 - recommended thinner.....Colourthane Reducers
 - volume of thinnerup to 10 %

NOTE: the maximum dry film thickness that can be achieved when brushing and rolling is 30 microns.

- **CLEANING SOLVENT**.....Colourthane Reducers

REDUCER GUIDE

Temperature	<15°C	20°C	25°C	30°C	>35°C
Colourthane Reducer Fast					
Colourthane Reducer Standard					
Colourthane Reducer 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
- this paint contains 0.03% monomeric diisocyanate when mixed. Provide adequate ventilation during use. Breathing the vapour is dangerous. Avoid breathing of fumes. Where applied by spray, use suitable air-fed respiratory equipment/hood 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

Overcoating Table-

Overcoating interval for Colourthane DTM540 when top coating with itself

Interval	5°C	15°C	25°C	35°C	60°C
Minimum	30 hrs	18 hrs	12 hrs	6 hrs	35 mins
Maximum	6 days	3 days	36 hrs	24 hrs	70 mins

Curing Table-

Substrate Temperature	5°C	15°C	25°C	35°C	60°C
Surface Dry	12 hrs	6 hrs	3 hrs	1.5 hrs	10 mins
Hard Dry	30 hrs	18 hrs	12 hrs	6 hrs	35 mins
Pot Life (at application viscosity)	6 hrs	3 hrs	1-2 hrs	45 mins	N/A

* adequate ventilation must be continuously maintained during application and curing

PRECAUTIONS

- for recommendations outside those contained in this data sheet, refer to Valspar

PRODUCT COMPATABILITY

Primers

- Colourthane Etch Primer
- Colourthane NS300
- Colourthane PF330
- Epiname UC230
- Epiname PR250
- Epiname PR360ZPS
- Epiname EB600

Topcoats

- Colourthane DTM540

STORAGE AND PACKAGING

- shelf life at least 12 months in an unopened container
- all components shall be stored in a dry internal environment at between 5°C and 35°C
- packaging
 - 20 Lt kit (16 Lt Part A (when tinted), 4Lt Part B)
 - 5 Lt kit (4 Lt Part A (when tinted), 1Lt Part B)

For the most up to date information visit our website or Contact Valspar Customer Service Hotline on:



Quality
ISO 9001

Valspar is committed to quality in the design, production and delivery of its products and services. Valspar's Australian manufacturing facilities quality management systems are certified to ISO9001.

www.wattylpc.com

132 101 (Australia) or 0800 735 551 (New Zealand)

Valspar's laboratory facilities are accredited for technical competence with the National Association of Tests Authorities, Australia (NATA) and comply with the requirements of ISO/IEC 17025. Accreditation No.104 (Footscray), 1154 (Glendenning) and 931 (Kilburn).



Trademarks are the property of Valspar Paint (Australia) Pty Ltd.

1. This information, provided by Valspar Paint (Australia) Pty Ltd (hereinafter referred to as "Valspar"), is important to ensure that the listed product(s) perform according to the stated application and uses and must be followed to meet Valspar's warranties express and implied. Valspar advises that you (a) review the Technical Data Sheets (TDS) and Material Safety Data Sheets (MSDS) before you use or handle the product; (b) ensure that the product be used only in accordance with the information provided by Valspar and the product(s) be transported, stored and handled in accordance with the information on the MSDS and relevant TDS; and (c) thoroughly test the product, using the recommended application method on a sample of intended substrate, before using the product. 2. The information in this TDS was prepared using information gathered during product development. While Valspar endeavours to update this information and maintain the accuracy and currency of its contents, Valspar does not warrant that the information provided is current when the product is used or is wholly comprehensive. 3. For all product and non-product related information, Valspar recommends that you conduct such additional investigations as may be necessary to satisfy yourself of the accuracy, currency and comprehensiveness of the information on which you rely in using and handling the product. If you require further information please contact your nearest Valspar office before using the product(s). 4. To the full extent permitted by law, Valspar's liability for breach of a condition or warranty implied into the contract for sale between Valspar and you by law is limited at Valspar's election to: (a) the replacement of the product; or (b) payment of the cost of replacing the product. If coating rectification is required Valspar Technical Services shall be contacted prior to commencement. VALSPAR PAINT (AUSTRALIA) PTY LTD (ABN 40 000 035 914)