



MIROTONE

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Data Sheet

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MIROTHANE® PU 5650 & PU 5650 HO (High Opacity) Pigmented Topcoats



Important Information

Mirotone only warrants the quality of the product in the can. It is your responsibility as the user, before application, to ensure that the coating system meets your requirement and is fit for the intended purpose.

Product Description

MIROTHANE PU 5650 is a user friendly two pack, fast cure pigmented polyurethane topcoat used for high quality fixtures and furniture finishing. MIROTHANE PU 5650 has been formulated with superior resistance to water, general household contaminants, marring and scuffing. The combination of low bubbling, quick dry time and excellent flow ensures the smoothest possible finish combined with superior gloss retention for a fuller finish. MIROTHANE PU 5650 is designed for interior use only.

Features & Benefits

High Opacity (HO):	Having your coloured topcoat made on one of Mirotone's coloured bases ensures fewer coats are required. For ultimate opacity use MIROTHANE PU 5650 HO Pigmented Topcoat over MIROTHANE PU 5600 or 5625 Coloured Undercoat.
Range of Colours:	Available in an extensive colour range or tintable to a colour sample.
High Build:	Will enhance the finished appearance of the topcoat by filling and covering the fibres of the substrate.
Excellent Flow & Levelling:	Provides a level even film, resulting in a smooth even finish. Results in minimal sanding time, less coating waste and low sand paper consumption.
Quick Dry:	Fast drying results in reduced production time, saving money and increasing throughput.
Full Range of Gloss Levels:	Available in a full range of gloss levels: Full Gloss, Semi-Gloss, Satin & Matt.
Accelerated Drying Option:	MIROTHANE PU 5795 Accelerator may be used to speed up the dry times without compromising a superb high gloss finish.

Typical Applications

- Kitchen & Bathroom Cupboards
- Commercial Joinery / Wall Panelling
- Dining & Bedroom Suites
- High Rise Office & Hotel Fittings
- Interior Marine Fixture & Fittings

Product Properties

Colour	White, Colours tinted to order
Gloss Level	Full Gloss, Semi Gloss, Satin & Matt.
Vertical Hang-Up	Good
Solvent Resistance	Excellent
Sandability	Good
Build	Very Good
Water Resistance	Excellent
Hardness	Excellent after 24 hours
Levelling & Flow	Excellent
Sink Back	Minimal

Application Methods

Suction Gun	Use 1.5 to 2mm (59 - 79 thou) orifice with 350-400kpa (50-55 psi).
Pressure Pot	Use 1.5 to 2mm (59 - 79 thou) orifice with pressure pot air-cap. Gun pressure 350-400kpa (50-55 psi) and a pot pressure of 45kpa (6 psi) max.
Airless Spray	Use 0.23 to 0.33mm (9 - 13 thou) orifice, 15cm fan (dependent on job) with regulated pump pressure of 350-400kpa (50-55 psi).
Air Mix Guns	Settings similar to airless spray with the air-assisted regulator pressure at 70-90kpa (10-15psi).

Mirotone recommends a range of spray equipment. Please contact your Mirotone representative for information on equipment for your application.

Mixing Ratio / Thinning Reduction Rate / Pot Life

MIROTHANE PU 5650 Satin	Approx Gloss Level	Mixing Ratio	Cure Speed	Low Yellowing	Solids	Flexibility	Thinning	Pot Life @ 25°C
MIROTHANE PU 5728 Fast Cure High Solids Hardener	20%	3A: 1B	Fast	••	High	Good	55%	> 8 hours
MIROTHANE PU 5747 Hardener	20%	2A: 1B	Fast	••	Low - RFU	Good	35%	> 12 hours
MIROTHANE PU 5735 Fast - Medium Cure High Solids Hardener	25-35%	3A: 1B	Fast - Medium	•••	High	Very Good	38%	TBA
					Low -			

MIROTHANE PU 5747 Hardener	30%	1A: 1B	Medium	••	RFU	Good	20%	> 12 hours
MIROTHANE PU 5757 Medium Cure High Solids Hardener	35-45%	3A: 1B	Medium	•••	High	Very Good	38%	> 8 hours
MIROTHANE PU 5728 Fast Cure High Solids Hardener	40-50%	2A: 1B	Fast	••	High	Good	47%	> 8 hours
MIROTHANE PU 5735 Fast - Medium Cure High Solids Hardener	50-60%	2A: 1B	Fast - Medium	•••	High	Very Good	35%	TBA
MIROTHANE PU 5780 Hardener	55-65%	1A: 1B	Slow	•••	Low - RFU	Excellent	17%	8 hours
MIROTHANE PU 5757 Medium Cure High Solids Hardener	65-75%	2A: 1B	Medium	•••	High	Very Good	35%	> 8 hours
MIROTHANE PU 5776 Medium-Slow Cure High Solids Hardener	65-75%	2A: 1B	Medium - Slow	•••	High	Excellent	50%	> 8 hours
MIROTHANE PU 5650 Semi Gloss								
NEW High Solids PU Hardeners	Approx Gloss Level	Mixing Ratio	Cure Speed	Low Yellowing	Solids	Flexibility	Thinning	Pot Life @ 25°C
MIROTHANE PU 5728 Fast Cure High Solids Hardener	60%	3A: 1B	Fast	••	High	Good	55%	>8 hours
MIROTHANE PU 5650 Full Gloss								
NEW High Solids PU Hardeners	Approx Gloss Level	Mixing Ratio	Cure Speed	Low Yellowing	Solids	Flexibility	Thinning	Pot Life @ 25°C
All new High Solids (HS) PU Hardeners have equal strength and may be blended to achieve intermediate rates of cure without changing the specified mixing ratio.								
MIROTHANE PU 5728 Fast Cure High Solids Hardener	Full Gloss	2A: 1B	Fast	••	High	Good	35%	2 hours
MIROTHANE PU 5735 Fast - Medium Cure High Solids Hardener	Full Gloss	2A: 1B	Fast - Medium	•••	High	Very Good	22%	TBA
MIROTHANE PU 5757 Medium Cure High Solids Hardener	Full Gloss	2A: 1B	Medium	•••	High	Very Good	22%	4 hours
MIROTHANE PU 5776 Medium-Slow Cure High Solids Hardener	Full Gloss	2A: 1B	Medium - Slow	•••	High	Excellent	25%	4 hours
MIROTHANE PU 5784 Slow Cure High Solids Hardener	Full Gloss	2A: 1B	Slow	••••	High	Excellent	10%	> 6 hours
MIROTHANE PU 5789 Ultra Flex Cure High Solids Hardener	Full Gloss	2A: 1B	Slow	••••	High	Excellent	25%	TBA
Ready For Use PU Hardeners (RFU)	Approx Gloss Level	Mixing Ratio	Cure Speed	Low Yellowing	Solids	Flexibility	Thinning	Pot Life @ 25°C
MIROTHANE PU 5780 Hardener	Full Gloss	1A: 1B	Medium - Slow	•••	Low - RFU	Excellent	7-10%	5 hours
Existing PU Hardeners (To be rationalised)	Approx Gloss Level	Mixing Ratio	Cure Speed	Low Yellowing	Solids	Flexibility	Thinning	Pot Life @ 25°C
MIROTHANE PU 5705 Hardener	Full Gloss	2A: 1B	Medium	••	High	Very Good	35-45%	3 hours
MIROTHANE PU 5750 Hardener	Full Gloss	2A: 1B	Fast	••	High	Very Good	35-45%	3 hours
MIROTHANE PU 5781 Hardener	Full Gloss	2A: 1B	Very Slow	••••	High	Excellent	7-10%	6 hours

Low Yellowing Rating Guide

••• Non Yellowing •• Low Yellowing •• Will Yellow Slightly • Will Yellow

The low yellowing rating guide above refers to the MIROTHANE PU Part B only. Where a low yellowing system is required the user must check that the MIROTHANE PU Part A Base meets their low yellowing requirements.

Important: To ensure a consistent finish is achieved, it is important to use the same MIROTHANE PU Part B Hardener, MIROSOL Thinner and thinner reduction rate throughout the entire job.

Mixing: Mix Part A and Part B together before thinning. Mix thoroughly.

Gloss Level: The gloss levels indicated above are to be used as a guide only. They were based on panels undercoated with MIROPOL PE 5111 Premium White Undercoat and topcoated with MIROTHANE PU 5650 thinned with MIROSOL 1266 to 19 seconds BS4 viscosity at 25°C. The actual gloss level achieved will depend upon the thinners used, wet film thickness (WFT) and the overall system. It is up to the user to test the actual gloss level achieved meets their requirements.

Thinning: The thinning rates above are based upon thinning with MIROSOL 1266 Medium-Slow Aromatic Free Thinner to 19 seconds BS4 viscosity at 25°C. The % thinning rate is based on Part A and Part B total mixed volume.

Note: MIROSOL 1260 thinner is not recommended for use in MIROTHANE PU 5650 Satin or Semi Gloss.

Pot Life varies with ambient temperature and the quantity mixed. Pot life is longer at lower temperatures and shorter at higher temperatures. Only mix the quantity required for the job.

Retarder (Ultra Slow) Thinner: In hot or draughty conditions Mirotone recommends that no more than 10% Ultra Slow Thinners is added. Exceeding this amount may retard the drying and could lead to problems with sanding, printing and blocking. Use faster thinners to achieve required viscosity and then use (only if required) a small amount of Ultra Slow Thinner to improve flow and levelling.

Low Gloss Finish: To achieve a Matt finish, use MIROSOL 1281 Matt Promoter.

Directions: Mix 1 Part MIROTHANE PU 5650/30 Part A Base with 1 Part MIROTHANE PU 5747 Part B Hardener and then add 20-25% MIROSOL 1281 Matt Promoter. The addition of MIROSOL 1281 Matt Promoter will bring the mixed coating to the required application viscosity. No other MIROSOL thinners will be required. See "Mixing & Gloss Level" section for alternative gloss level requirements.

Mixing & Gloss Level Information

The table below shows the mixing ratio and the approximate gloss level achieved when the coatings are mixed and applied at the recommended wet film build and viscosity. Blending of any of the MIROSOL reducers listed in the table below with the MIROSOL 1281 Matt Promoter will result in the alteration of the dry film gloss level.

Product	Hardener Mixing Ratio	Reducers	Reduction Rate	Approximate Gloss Level
MIROTHANE PU 5650 Gloss	2 Parts PU 5650/FG Base to 1 Part PU 5784 or 5776 Part B Hardener	MIROSOL 1265 MIROSOL 1260 MIROSOL 1269 MIROSOL 1263 MIROSOL 1218	5 to 10%	98-100%
MIROTHANE PU 5650 Gloss	1 Part PU 5650/FG Part A Base to 1 Part PU 5780 Part B Hardener	MIROSOL 1265 MIROSOL 1260 MIROSOL 1269 MIROSOL 1263 MIROSOL 1218	5 to 10%	90-98%
MIROTHANE PU 5650 Gloss	1 Part PU 5650/FG Part A Base to 1 Part PU 5747 Part B Hardener	MIROSOL 1265 MIROSOL 1260 MIROSOL 1269 MIROSOL 1263 MIROSOL 1218	5 to 10%	90-95%
MIROTHANE PU 5650 Semi Gloss	1 Part PU 5650/60 Part A Base to 1 Part 5747 Part B Hardener	MIROSOL 1265 MIROSOL 1266 MIROSOL 1263 MIROSOL 1269	25%	55-65%
MIROTHANE PU 5650 Mid Gloss	1 Part PU 5650/60 Part A Base to 1 Part 5747 Part B Hardener	MIROSOL 1281 Matt Promoter	25%	40-50%
MIROTHANE PU 5650/30	1 Part PU 5650/30 Part A Base to 1 Part 5747 Part B Hardener	MIROSOL 1217 MIROSOL 1232 MIROSOL 1265 MIROSOL 1266 MIROSOL 1263 MIROSOL 1269	25%	25-35%
MIROTHANE PU 5650 Low Gloss	1 Part PU 5650/30 Part A Base to 1 Part 5747 Part B Hardener	MIROSOL 1281 Matt Promoter	25%	10-15%

Recommended MIROSOL® Thinners

Thinner Rating Guide

••• Highly Recommended


•• Recommended

• Approved

Speed of Dry (Listed Fastest to slowest)	Suitability	MIROSOL Thinner	Aromatic Free?	Pack Size Available			
				4 Litre	20 Litre	60 Litre	205 Litre
Ultra Fast	••	MIROSOL 1234	Yes		*	*	
Fast	•••	MIROSOL 1280	No		*	*	
	•••	MIROSOL 1232	Yes	*	*	*	
	•••	MIROSOL 1217	Yes	*	*		
Medium	••	MIROSOL 1231	No		*		
	••	MIROSOL 1269	No	*	*		
	•••	MIROSOL 1263	No	*	*	*	
	••	MIROSOL 1265	Yes	*	*	*	
Slow	•••	MIROSOL 1266	Yes	*	*	*	
	••	MIROSOL 1260	Yes	*	*	*	
Ultra Slow	•••	MIROSOL 1218	No	*	*	*	
Specialty Reducers	•	MIROSOL 1281 Matt Promoter for PU 5555 & 5650	No	*	*		

MIROTHANE PU 5795 Accelerator Mixing Ratios

MIROTHANE PU Part A	MIROTHANE PU Part B	Mix Ratio	PU 5795 Addition % per Vol of Part A
5650 (Non CTB Tints)	5780	1A:1B	1 to 2% [10 to 20 ml/Lt]
5650 (CTB Tints)	5780	1A:1B	1 to 3% [10 to 30 ml/Lt]

5650 (All Colours)	5781	2A:1B	1 to 3% [10 to 30 ml/Lt]				
<ul style="list-style-type: none"> MIROTHANE PU 5795 Accelerator recommended % addition is calculated on the MIROTHANE PU Part A volume only. MIROTHANE PU 5795 Accelerator is for use with MIROTHANE PU range ONLY. MIROTHANE PU 5795 will shorten the standard mix pot life. CTB = Clear Tint Base 							
Application Viscosity & Wet Film Thickness							
Spray only in properly constructed and compliant spray booth.							
Spraying Viscosity: 17-20 seconds BS4 Flow Cup at 25°C.							
Wet Film Thickness: 125-150 microns wet film thickness per coat.							
Full Gloss Coatings: To achieve a superior gloss finish with MIROTHANE PU 5650 Full Gloss coatings the following application technique is recommended:							
<ul style="list-style-type: none"> Apply a light 'tack' coat (100-125 microns WFT). Allow 1-5 minutes to flash off (dependent upon temperature). Apply a second even wet coat (125-150 microns WFT). 							
Approximate Drying Times @ 23°C							
Dust Free:	8 minutes	 Note: Stated temperatures are dependent on your choice of hardener and thinners. Temperatures below 16°C and the use of Slow or Ultra Slow thinners will retard the drying time.					
Touch Dry:	30 minutes						
Sanding:	100 minutes						
Hard Dry:	8 hours						
Block Stacking:	24 hours						
Full Cure:	5-7 days						
Force Drying Procedure							
Flash Off:	30 minutes @ 20°C						
Force Dry:	30 - 60 minutes @ 40-50°C (dependent on airflow)						
Cool Down:	15 minutes @ 20°C						
The above temperatures are dependent on airflow.							
Shelf Life							
MIROTHANE PU 5650 Pigmented Topcoat & MIROTHANE PU Part B Hardeners have 12 months shelf life when stored in sealed containers below 25°C.							
Coverage (theoretical)							
8 m ² per litre at 100% transfer rate when applied with a conventional spray gun at 125 micron wet film build applied at 19 seconds BS4 application viscosity. These measurements are dependent on the application equipment / gun set-up and the articles being coated.							
Note: The above coverage is the maximum rate possible and will vary dependent on the application equipment set up and total wastage.							
Packaging							
Product		Can Size	Net Contents				
MIROTHANE PU 5650 Part A Base		1 Litre	1 Litre				
		4 Litre	4 Litre				
		20 Litre	16 Litre				
Note: For tint bases, Part A Base Net Contents represents approximate contents after tinting.							
Application Equipment Clean Up							
Clean all equipment immediately after use with any of the MIROSOL thinners listed below. Do not leave MIROTHANE PU polyurethane or MIROPOL PE polyester coatings in your equipment longer than the recommended pot life as this could result in the equipment becoming unusable.							
Gun / Equipment Wash Rating Guide							
•••	Highly Recommended	••	Recommended				
		•	Approved				
			Pack Size Available				
Speed of Dry (Listed Fastest to slowest)	Rating	Thinner	Aromatic Free?	4 Litre	20 Litre	60 Litre	205 Litre
Ultra Fast	•••	MIROSOL 1208	Yes		*	*	*
	•••	MIROSOL 1234	Yes	*	*	*	*
Fast	•••	MIROSOL 1224	Yes	*	*	*	
	••	MIROSOL 1280	No	*	*	*	
	•••	MIROSOL 1232	Yes		*		
	•••	MIROSOL 1217	Yes	*	*		
Medium	•	MIROSOL 1263	No	*	*	*	
	••	MIROSOL 1265	Yes	*	*	*	
Slow	••	MIROSOL 1266	Yes	*	*	*	
Application System							
Surface Preparation							

All wood and wood related substrates must be free from dust, grease, dirt and all other contaminants before proceeding. Contaminants may be removed by washing the substrate with MIROSOL 1231 Medium Thinner which is ideal for removing wax and grease. Fill all wood defects with MIROPUTTY 916 water based wood filler (i.e. cracks, holes, etc) or fill open grain woods with MIROFIL 1702 wood filler, if full high build finish is required.

Sanding

Wood Substrates - Sand to a smooth even finish using 180-240 grit 3M Production Fre-cut paper.
MDF Boards - Sand to a smooth even finish using 240-320 grit 3M Production Fre-cut paper.
Remove all sanding dust using an air gun and clean lint free cloths.

Undercoating

Undercoat substrate with only of the approved Mirotone sealers below as per the instructions on the relevant data sheet.

- MIROLAC NC 3121*
- MIROLAC NC 3125*
- MIROPOL PE 5110
- MIROPOL PE 5111
- MIROTHANE PU 5620
- MIROTHANE PU 5625
- MIROTHANE PU 5600

Note: MIROTHANE PU 5600 white undercoat can be tinted with left over MIROTHANE PU 5650 pigmented topcoat to achieve a coloured undercoat. See the MIROTHANE PU 5600 data sheet for instructions.

***Note:** MIROLAC NC 3121 & 3125 are recommended for subdued gloss topcoats. To achieve the highest gloss with best possible DOI Mirotone recommends the use of a MIROPOL PE undercoat.

Sanding: Allow to dry as per the relevant product data sheet. To ensure the best adhesion between topcoat and undercoat, sand the undercoat immediately prior to top coating. For subdued gloss finishes, sand with 280-320 grit Fre-Cut paper. For high gloss finishes, use 400-500 grit Free-Cut paper. Remove all sanding dust using an air gun and clean lint free cloths.

Topcoat

Mix MIROTHANE PU 5650 Part A with one of the approved hardeners (as per the mixing ratio section on this data sheet). Stir thoroughly, thin as required, strain the mixed MIROTHANE PU 5650 pigmented topcoat before application.

If sanding between coats, allow 1-2 hours to dry and then sand with 400-500 grit Fre-Cut paper.
Remove all sanding dust using an air gun and clean lint free cloths.
Apply a second coat of topcoat.

Buffing

Allow MIROTHANE PU 5650 to dry for a minimum of 18 hours (overnight) at 20°C before buffing.

Buff/polish by hand or by machine with 3M Perfect It polishing system or other polish recommended for high gloss polyurethane finishes.

Colour Matching Guide

Do Not exceed the **maximum** colourant/tinter level in the table below as this may affect the stability, colour and performance of the MIROTHANE PU 5650 topcoat.

When using a Mirotone tint system it is important to ensure that the colourant/tinter is thoroughly incorporated into the MIROTHANE PU 5650 base. Mirotone recommends the use of commercial paint shakers or air driven mechanical stirrers. **DO NOT USE** stirrers with ignition sources such as non-flameproof electrical stirrers or hand held electrical drills, as this may cause the coating to ignite. For specific mixing times refer to the table below.

Note: Only use Mirotone's recommended colourants and formulas to achieve required colours.

Mirotone Tint Bases Part A Base	Colourant Addition for Light Tint Base & HO Base	Colourant Addition for Clear Tint Base	Mixing Time for 1 & 4 Litre	Mixing time for 20 Litre
MIROTHANE PU 5650	10% by volume	20% by volume	9 minutes	12 minutes

Note: Some colours can only be matched accurately using a Clear Tint Base (CTB). Colours made on CTB may require multiple topcoats to achieve full opacity. The number of topcoats may be reduced by using a tinted undercoat (PU 5600 or PE 5110).

Warnings

! **Follow Directions:** Carefully read the contents of this Data Sheet and the associated Material Safety Data Sheet (MSDS). Please do not apply this product unless:

- You have a Material Safety Data Sheet (MSDS) in your possession.
- You fully understand these important documents, and
- You are prepared to follow all directions.

! **Not Recommended:** This product is not recommended for the following applications:

- Exterior exposure
- Wear surfaces on flooring

! **Harsh In-Service Environments:** For harsh in-service environments Mirotone recommends the use of MIROTHANE PU 5545 Clear sealer with MIROTHANE PU 5555 Clear topcoat or MIROTHANE PU 5625 or MIROPOL PE 5110 & 5111 pigmented undercoat with MIROTHANE PU 5650 or 5605 pigmented topcoat.

! **Damage caused by sharp objects:** Coatings can be damaged by sharp objects. Due care should be taken in harsh in-service environments to protect the coating e.g. use placemats, coasters, table cloths or other protective coverings.

! **Recommended Coating System:** For superior coating properties and in-service performance, Mirotone recommends the application of one sealer coat followed by two coats of an approved topcoat. Alternatively for high volume production environments a two sealer / one topcoat system may be used but this will lead to reduced physical properties of the coating system. In clear coating systems excessive application of sealer or topcoat may result in milky or cloudy appearance in the final finish.

! **MIROSOL Thinners:** The use of any thinner other than the approved list on this data sheet will void any warranty that Mirotone may offer. Refer to Mirotone's Technical Bulletin "Mixed Coating Systems".

! **High Humidity and Moisture In-Service Environments:** All wood will swell and discolour if allowed to come into contact with water vapour. The protection provided by a coating is dependent on the moisture transmission of the coating and on the thickness of the dry coating film applied. Coated sharp edges are usually the most vulnerable to damage either from the coating being removed or by inadequate film builds in high wear / traffic areas. Special care during sanding and coating should always be given to sharp edges as the coatings do not build as well onto them, resulting in reduced protection in high moisture environments.

! Damp Wood: Do not apply coatings over damp wood (moisture content greater than 15%) as the following may result:

- Loss of adhesion to the wood
- Cracking or veneer checking of the wood
- Frying of the coating system, particularly with Acid Catalysed systems

! High Humidity at Time of Application: Application of coatings at high humidity will:

- Speed up the drying process and reduce the pot life of polyurethane coatings.
- Increase the risk of blooming (whitening).
- Blooming may occur if the coating is applied over damp wood or exposed to water or dew during the first hour of drying.

! Cold Temperature: Application of any coating at low temperatures will reduce the general in-service performance of the coating due to reduced cross linking of the coating. Application of MIROTHANE PU or MIROPOL PE below 15°C and MIROCAT PC or MIROBILD AC below 10°C may affect drying and the gloss level of the coating.

! Inter-coat Adhesion: To ensure sound inter-coat adhesion, thoroughly sand between coats. To reduce the potential for adhesion failure in the field, Mirotone strongly recommends it's customers carry out regular and appropriate quality control testing of their production output.

! Bridging: On routed MDF panels and doors DO NOT exceed the recommended wet film thickness, as cracking or bridging of the dry film in the grooves may occur.

! Gloss Level: Care must be taken to apply a uniform wet film thickness (WFT). Gloss level is dependent on WFT and will be lower at low WFT and higher at high WFT.

! Handling: The transfer of oils or fats from the skin to the surface of the coating may leave visible finger prints on dry coatings. The lower the gloss level and the darker the colour the more visible the finger prints will be. Therefore use of dark low gloss colours should be carefully considered. In most cases Mirotone's Sprayglow will remove finger prints.

! Buffing: To improve gloss level of topcoats use light hand or machine buffing/polishing with the 3M Perfect IT polishing system. If sanding of the coating is required to remove surface defects, the panel must be sanded and resprayed in a dust free environment.

! Packaging: Any two component coating mixed with a slow hardener or retarder thinner will require increased drying time before packaging. The same Part B must be used on the entire job to ensure a visually consistent finish.

Health & Safety

Refer to Material Safety Data Sheet (MSDS). MSDS sheets are available at www.mirotone.com

Ensure that all Personnel using this product have read and understood this data sheet and the associated MSDS and packaging label before using this product.

Engineering Controls: Avoid inhalation of vapour or sanding dust by maintaining adequate ventilation. Avoid pockets of vapour. This is normally achieved by applying in a well-exhausted spray or sanding booth complying with AS 4114. If inhalation risk exists (e.g. spraying) the operator must wear an air supplied positive pressure demand full-face mask complying with AS1716 and use in accordance with AS1715.

Personal Protection: Contact with any chemical should be avoided. Avoid contact with skin and eyes, and avoid breathing the vapour or spray mist. Wear suitable protective clothing including rubber or PVC gloves and safety goggles. When using, do not eat nor smoke.

Mirotone Accreditations

Research Laboratory: Mirotone's head office research laboratory in Sydney, Australia holds N.A.T.A. accreditation No. 865 under ISO/IEC 17025:1999 General Requirements for the Competence of Testing and Calibration Laboratories.
N.A.T.A. - National Association of Testing Authorities

Quality System: Mirotone is N.A.T.A. certified to AS/NZS ISO 9001:2000 Quality Systems for design and manufacturing.

Mixed System Policy

A Mixed System is:

Where any coating or additive manufactured by another coating manufacturer is applied under, between, in, or on top of, coatings manufactured by Mirotone. [Additives may include thinners, retarding solvents, hardeners, flow additives, stains or catalysts]; or

Where products manufactured or supplied by Mirotone are used in a manner not approved or recommended by Mirotone on its labels or Data Sheets.

Policy: Mirotone will not recognise any warranty claim from customers or third parties if any Mirotone product has been used in a Mixed System. Mirotone can only warrant the quality of its own range of coatings when used in strict accordance with the recommended coating systems thinners and additives stated on Mirotone's labels and Data Sheets.

Limitation of Liability

This Data Sheet is based on information in Mirotone's possession at the "Date of Issue" above. Later experience may lead to amendments. Users should check with Mirotone to ensure that this Data Sheet is still current.

The information contained in this Data Sheet is based on data appraised in our Laboratories and on our own research, and that of others whose work we believe is reliable. Due to possible differences between controlled laboratory test conditions and methods, and actual application conditions and methods, coupled with possible differences in interpretation of results, the user of this product must satisfy himself that the end result obtainable under his particular application conditions meets his requirements. Special attention is directed to the problem of chemical compatibility, as Mirotone can control only the quality and formulation of its own materials. Mirotone has no control over quality, formulation or consistency of other manufacturers' products or the substrate to which its product is applied. Therefore Mirotone supplies its products only on condition that the consumer himself is satisfied as to the performance of the product in meeting his particular requirements.

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