

URETHANE COATINGS

POLYURETHANE SPECIALISTS SINCE 1979

TECHNICAL DATA SHEET

SILVERSEAL has been developed as a first coat for, cork tiles, particle board, pine species (Baltic, Cypress and Radiata) and all species of Hardwoods.

SILVERSEAL may also be mixed with fine sawdust (or sanding dust [for perfect colour matching use sanding dust from the same timber species [after sieving out any sanding aggregate]) to slurry consistency, for use as a filler for timber seams.

As SILVERSEAL is highly flexible it will virtually eliminate edge bonding when it is heavily applied and worked into the seams, thereby preventing entry of the subsequent coat of MONOTHANE SILVER GLOSS.

SILVERSEAL is compatible with and/or may be mixed with, TIMBERSEAL.

Physical Description & Product Specification

		SILVERSEAL
Appearance		Transparent Liquid with mild aromatic odour.
Colour		Opaque.
Drying Time (hours) @ 25°C & 50% R.H.		Reduced temperature and/or decreased humidity will slow drying (extend each drying phase).
	Dust Free	0.25
	Tack Free	0.50
	Print Free	0.75
	Hard Dry	1.00
Reflectance %		30-40
Viscosity @ 25°C (seconds)		19-22
Wet film per coat	(mm)	0.100
Solubility		Not Soluble in Water.
Specific gravity (H₂O = 1):		0.87
Recoat @ 25°C & 50% R.H.	(Hours)	1.5 – 2.0
Sanding properties		Sanding <i>IS NOT</i> Required. If surface imperfections require sanding – refer application method.
Coverage	(m ² /Litre)	10 - 12
Full cure	(Days)	1.
Shelf life	(Months)	12.

Application Data

Floor Preparation:

General:

1. Check that timber is adequately seasoned as if not, any subsequent cracking warping and shrinkage may compromise adhesion.
2. Ensure the surface is dry and thoroughly clean, removing all dirt, mildew, wax, grease, resin oils, tannins and dust. If Timber is extremely oily or tannin rich, dampen a mop or clean rag with Urethane Coatings THINNERS and complete a '**Chemical wash**' wiping parallel to the grain in a similar manner to applying a coating. If a large area is to be cleaned, thoroughly rinse the mop or rag every 3 to 5m², re-dampen and continue.
3. Nail holes and surface defects should be filled with water based putty.

New Floors: Follow steps 1 to 3 above, sand the floor and fine sand, finishing with 120 grit screen back or pad and vacuum thoroughly.

Old Floors: If the previous finish requires sanding back to bare timber prepare the floor as if a **new floor** detailed above. If not SILVERSEAL is not required and so follow steps 2 to 3 above and clean with hot water and detergent, and roughen surface completely with 100 grit sandpaper and fine sand, finishing with 120 grit screen back or pad and vacuum thoroughly. Wipe floor with Urethane Coatings THINNERS. Test for compatibility by applying MONOTHANE SILVER GLOSS on a small section of floor first. If 'craters' or 'fisheyes' appear add 20mls of Urethane Coatings FLOWMAX Anti Rejection Fluid per Litre of MONOTHANE SILVER GLOSS and stir thoroughly. Soon after application, inspect for rejections, and if necessary continue adding FLOWMAX in increments of 10mls per Litre until the surface is free from rejections or up to a maximum of 100mls per Litre of MONOTHANE SILVER GLOSS.

IMPORTANT NOTICE: For Best adhesion hardwoods should not be burnished (overly fine sanded), i.e. leave the surface grain open. Many timber species yield natural resins, gums, oils & waxes that may accumulate on the surface to be coated. If present remove immediately prior to applying SILVERSEAL by completing a **Chemical wash** (detailed above- 'Floor Preparation, General, 2').

Application Orientation: For interior flooring (including all species of timber, parquetry, cork and particle board).

Application Conditions: Do not use SILVERSEAL at temperatures below 10°C or above 30°C. On cold days for at least one hour prior to application warm SILVERSEAL, by wrapping container in an electric blanket (temp setting 1) for up to 2 hours. Do not use SILVERSEAL if relative humidity is in excess of 85% AND/OR if the moisture content of timber is in excess of the Australian Standard (9 to 14%).

SHAKE WELL and STIR: thoroughly before and during use as SILVERSEAL contains a silica based matting paste which may settle during the shelf life of this product. [Unstirred SILVERSEAL will dry glossier than stirred SILVERSEAL].

Application Method: Apply with short nap (4 to 6mm) mohair roller, brush or lambs wool applicator. Do not return unused material to the can/drum. Touch dry; 30 to 60 minutes at 25°C and 50% relative humidity, however allow 1.0 to 1.5 hours to fully dry. **Reduced** temperature and/or **reduced** humidity will slow drying (extend time required to dry). Suitable to recoat after 1.5 hours at 25°C and 50% relative humidity.

N.B. There is no need to sand SILVERSEAL as it chemically bonds to the subsequent coat of MONOTHANE or DUOTHANE. However if sanding is required to remove surface imperfections, extreme care should be taken **NOT** to cut through the sealer as this will allow the subsequent coat of MONOTHANE or DUOTHANE to 'wet' the timber causing colour variation, therefore use only a nylon buffing pad.

If the SILVERSEAL does not sand to a fine white powder, leave for a further 4 hours – In cold conditions, if possible & practicable operate artificial heating ([Radiator style] Column oil filed electric heaters are preferable - DO NOT operate heating equipment that utilise naked flames or red hot surfaces).

New Floors: Apply three coats as per all options below.

Old Floors: Apply two coats; 1st as per **SECOND COAT** options (a), or (b) below, then 2nd as per **THIRD COAT and/or Final Coat** below.

FIRST COAT - can be either (a) or (b) or (c);

(a) SILVERSEAL – apply with a mohair roller. Allow 30 to 60 minutes to dry, no sanding is required prior to application of second coat.

(b) DUOTHANE FAST A/DUOTHANE Part B - apply with a mohair roller or lamb's wool applicator. Allow 90 to 120 minutes to dry. Lightly sand with 150 mesh screen-back and vacuum thoroughly before the next coat.

(c) MONOTHANE SILVER GLOSS – apply with a mohair roller or lamb's wool applicator. Allow 4.0 to 5.5 hours to dry. Lightly sand with 150 mesh screen-back, and vacuum thoroughly before the next coat.

N.B. MONOTHANE CATALYST may be added to the first and second coats of MONOTHANE SILVER GLOSS to accelerate curing. Fine sand or buff between coats with 150 mesh screen back.

SECOND COAT – Apply Either (a) or (b).

(a) DUOTHANE FAST A/DUOTHANE Part B - apply with a mohair roller or lamb's wool applicator. Allow 90 to 120 minutes to dry. Lightly sand with 150 mesh screen-back and vacuum thoroughly before the next coat.

(b) MONOTHANE SILVER GLOSS – apply with a mohair roller or lamb's wool applicator. Allow 4.0 to 5.5 hours to dry. Lightly sand with 150 mesh screen-back, and vacuum thoroughly before the next coat.

THIRD COAT and/or Final Coat – Apply a very even coat of MONOTHANE SILVER GLOSS with a mohair roller or lamb's wool applicator. Application of a consistent film thickness is critical to prevent stop and/or lap marks appearing as MONOTHANE SILVER GLOSS dries.

Coverage:

10m² to 12m² per Litre.

Thinning:

SILVERSEAL does NOT require thinning. Urethane Coatings THINNERS may be added if SILVERSEAL has thickened, or if a higher coverage and a thinner coat is required.

Clean Up:

Thoroughly wash all equipment with Urethane Coatings CLEANING SOLVENT. Dry roller, brush, and applicator before reusing.

Packaging:

SILVERSEAL is supplied in 20 Litre Drums.

Shelf Life:

SILVERSEAL is best if used within 12 months from manufacture, when stored in unopened containers under normal conditions of temperature and humidity.

Health & Safety Directions:

For detailed Health and Safety information refer to the SILVERSEAL Safety Data Sheet (SDS) or visit; www.urethanecoatings.com.au.

Usage of this material must be under well ventilated conditions to minimise inhalation of vapours. Wear respirator with filters that conform to AS 1716. Asthmatics, the very young, elderly people and pets should leave the site during the first 24 hours. Prevent skin contact by wearing impervious gloves, overalls, safety boots and safety glasses. Breathing of vapour is harmful and may cause lung irritation and allergic respiratory reaction. Irritates skin and eyes. Keep can/drum firmly closed as this product cures when exposed to air. In case of spillage, cover with earth, sand or absorbent material. Remove from work area and cover with water for 24 hours prior to disposal.

Flammable:

SILVERSEAL contains Aromatic Hydrocarbon. The can/drum contains volatile and flammable solvents and when applying the contents adequate ventilation to the outside must be provided. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing electrical switches, etc.) must be eliminated in or near the working area. DO NOT SMOKE. Keep Drum closed when not in use.

First Aid:**Eye Contact:**

Irrigate affected eye(s) with copious quantities of water for 15 minutes ensuring eyelids are held open. Seek medical advice if any pain or redness develops or persists.

Skin Contact:

Wash skin thoroughly with soap and water as soon as possible. Remove contaminated clothing and wash underlying skin. Launder clothing before re-use.

Inhalation:

Inhalation of mists, fumes or vapour may irritate the nose or throat. Remove from area of exposure to fresh air, taking care to use respiratory protection so as not to expose self to hazard. If effects persist obtain medical assistance.

Ingestion:

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give glass of water. Seek immediate medical advice and/or call poisons information centre, (Australia: 131126).

Precautionary Statement:

First Aid is generally not required, treat symptomatically. If medical advice is needed, have product container or label at hand. Keep out of the reach of children. Read label before use.

Warranty:

Written claims to be made to seller within 7 days of goods received. Urethane Coatings (UC) warrants its' products to be free of defects in materials, and within their manufacturing specification but makes no warranty as to application and installation. As methods of application and on site conditions are beyond the manufacturers' control and can affect performance, UC makes no other warranty, expressed or implied, including warranties of merchantability and fitness for a particular purpose. Urethane Coatings' sole obligation shall be, at its option, to replace, or refund the purchase of the quantity of Coatings proved to be defective and UC shall not be liable for any loss or damage including incidental or consequential damages arising from the use of UC products.

Product Identification:

UN No.:	1263	D.G. Class:	3	CAS No.:	PROPRIETARY
HAZCHEM:	3[Y]	PACK. GRP.:	II	Manufacturers MANCODE:	URECOAT
Correct Shipping Name:	PAINT				

Notice to Readers

Urethane Coatings make no representation as to the completeness and accuracy of the data contained in this Technical Data Sheet. It is the user's obligation to evaluate and use this data, and to comply with all relevant Commonwealth, State and Local Government laws and regulations. Urethane Coatings shall not be responsible for loss, damage or injury resulting from reliance upon or failure to adhere to any recommendations contained herein, from abnormal use of the material, or from any hazard inherent in the nature of the material.

End of Technical Data Sheet