

URETHANE

COATINGS

POLYURETHANE SPECIALISTS SINCE 1979

TECHNICAL DATA SHEET

WOOD STAINS have been developed to add colour and enhance the grain patterns and natural contours of all timber, parquetry and particle board.

URETHANE COATINGS *WOOD STAINS* are suitable for all timber structures including; flooring, steps, furniture, door jambs, window frames, architraves, mouldings and railings.

Physical Description & Product Specification

	WOOD STAINS
Appearance	Dark coloured liquid with moderate to strong solvent odour.
Colours	Black
	Antique Brown*
	Teak Brown
	Oak
	Walnut
	Jarrah
	Mahogany
	Red**
	Teak Gold***
Drying Time (hours) 25°C & 50% R.H.	
On bare timber, applied as 'Rag on , Rag off'	1.50
On bare timber (Soft Wood), applied with 4-6mm roller	2.00
On bare timber (Hard Wood), applied with 4-6mm roller	2.50
Reflectance %	20-40
Solubility	Not Soluble in Water
Specific gravity (H₂O = 1):	0.93
Recoat with Monothane or Duothane @ 25°C & 50% R.H. (Hrs)	6.0 – 8.0
Recoat with Tungseal or Modified Oil @ 25°C & 50% R.H. (Hrs)	12.0
Shelf life (Months)	24

*Antique Brown has become a popular alternative for 'Japan Black' type finishes.

**Red is extremely similar to 'Rose wood'

***Teak Gold is an excellent yellow alternative.

PREPARATION

Floor Preparation:

New Floors/New Timber: Ensure timber is adequately seasoned, fill all nail holes and surface defects (Ensure filler used is colour matched to timber), fine sand (Not finer than #120 grit) and vacuum thoroughly.

Old Floors/Pre Coated Timber: Sand back to bare timber, then fine sand (Not finer than #120 grit), and vacuum thoroughly.

Check for possible contamination from previous coatings and/or past use of floor. Test for compatibility by applying *MONOTHANE 45 GLOSS* on a small section of floor first. If 'craters' or 'fisheyes' appear, (when adding *WOOD STAIN*) add 10mls of URETHANE COATINGS *FLOWMAX* Anti Rejection Fluid per litre of *MONOTHANE 45 GLOSS* and refer to URETHANE COATINGS *FLOWMAX* directions.

APPLICATION

Shake well URETHANE COATINGS *WOOD STAINS* before use.

Traditionally stains are applied with a rag and rubbed into timber (a method known as 'wipe on, wipe off'). This method is ideal for furniture and small areas, however is not well suited to large surfaces such as floors, and accordingly as an alternative, URETHANE COATINGS *WOOD STAINS* can be applied with a short nap mohair roller and/or lambs wool applicator.

WOOD STAIN APPLICATION TIPS; Wipe on wipe off, or apply with a short nap mohair roller then promptly follow and 'mop up', with a lambs wool applicator to absorb any 'ponding' to ensure an even dispersion of colour. IF *TIMBERSEAL* IS NOT USED AS A 1st Coat PAY SPECIAL ATTENTION TO ANY BUILD UP OF STAIN WITHIN SEAMS AND JOINTS, AND DO NOT RECOAT UNTIL ALL STAIN WITHIN THE SEAMS AND JOINTS IS THOROUGHLY DRY. It is possible that *POLYURETHANE*, *TUNGSEAL* and *MODIFIED OILS* will take up some colour from the stain, and therefore extreme care should be exercised to avoid overworking the first coat of these finishes when applying over the Stain. Ideally, use as few as possible sweeps of the roller or applicator.

Application of *WOOD STAIN* onto bare timber Vs *TIMBERSEAL* then *WOOD STAIN*.

Excellent definition between grain patterns.	Virtually eliminates edge bonding.
May produce slightly raised grain.	Virtually eliminates 'hungry (dry) spots'.
Easily worked into open grain.	Even colour dispersion.
	Slows migration of natural contaminants (Oils & Waxes) to surface.

Application onto bare timber or TIMBERSEAL.

N.B. DO NOT mix WOOD STAIN into TIMBERSEAL.

1st Coat. Apply WOOD STAIN (If diluted colour is required refer to 'THINNING') or natural TIMBERSEAL as a first coat. If TIMBERSEAL is applied as a first coat, allow 1hour to dry (25°C and 50% relative humidity) and apply WOOD STAIN, allowing to dry as detailed under 'DRYING TIME' and proceed as per 2nd Coat.

2nd Coat. Apply natural *MONOTHANE* or *DUOTHANE* – If additional colour is required refer to *klgmh*'section below; 'Application when mixed as a tint with *MONOTHANE* OR *DUOTHANE*, 2nd Coat'.

3rd Coat. Apply a final coat of natural *DUOTHANE* or *MONOTHANE GLOSS*, *MONOTHANE SEMI-GLOSS* or *MONOTHANE SATIN* (as per required finish sheen).

To extend the working time add Urethane Coatings *FLOWMATE* Wet Edge Extender **up to 100mls per litre** of *MONOTHANE* or *DUOTHANE* into initial coats and **50mls per litre** in the final coat.

The addition of *WOOD STAIN* into the final coat and *MONOTHANE SEMI-GLOSS*, *MONOTHANE SATIN* and *MONOTHANE MATT* is NOT recommended.

Application when mixed as a tint with MONOTHANE OR DUOTHANE.

URETHANE COATINGS *WOOD STAINS* are fully soluble in polyurethane and accordingly can be mixed into, as a tint, *MONOTHANE GLOSS* and/or *DUOTHANE* and therefore can be applied just as easily as natural *MONOTHANE* or *DUOTHANE*.

N.B. DO NOT mix WOOD STAIN into TIMBERSEAL.

1st Coat. Apply natural TIMBERSEAL as a first coat.

2nd Coat. When mixing as a tint into *MONOTHANE* or *DUOTHANE*, add at rates of 10mls/litre (1%) until the required concentration of colour is achieved (typically up to 100mls/litre [10%]), and apply as a second coat (When assessing the strength of colour commence with lesser addition rates to evaluate the effect of colour).

3rd Coat. If additional colour is required add at rates of 5mls/litre (0.5%) until the required concentration of colour is achieved to *MONOTHANE* or *DUOTHANE* and apply as a third coat.

4th Coat. Apply a final coat of natural *DUOTHANE* or *MONOTHANE GLOSS*, *MONOTHANE SEMI-GLOSS* or *MONOTHANE SATIN* (as per required finish sheen).

SHELF LIFE

WOOD STAINS & *WOOD STAIN REDUCER/EXTENDER* are best if used within 24 months from manufacture (refer to batch number on label), when stored in unopened containers under normal conditions of temperature and humidity.

SAFETY DIRECTIONS

For detailed Health and Safety information refer to the *WOOD STAINS* MSDS as it is an integral part of using this product.

Use this material in well ventilated conditions. Prevent skin contact by wearing impervious gloves. Avoid breathing of vapour as it may cause lung irritation. May irritate skin and eyes. Keep containers firmly closed when not in use. In case of spillage absorb into dry sand or dirt then remove from work area and complete disposal in responsible manner.

WARNING FLAMMABLE

Flammable liquid. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc.) must be eliminated both in and near the work areas. DO NOT smoke.

FIRST AID

If affected by inhalation of vapour, remove to fresh air. If breathing difficulty persists or occurs later consult a doctor and have label ready. If swallowed, give water and induce vomiting. CONTACT DOCTOR OR POISONS INFORMATION CENTRE Australia 131126. In case of eye contact, flush immediately with water for fifteen minutes and call a doctor. In case of skin contact, remove contaminated clothing and wash skin first with soap and water.

PRODUCT IDENTIFICATION

UN No.: Non allocated

D.G. Class: C.1 Combustible liquid

CAS No.: 78-59-1/471-01-2

HAZCHEM: Non Allocated

Correct Shipping Name: Isophorone.

Manufacturers MANCODE: URECOAT

NOTICE to READER

URETHANE COATINGS make no representation as to the completeness and accuracy of the information contained in this Technical Data Sheet. It is the user's obligation to evaluate and use this data, and to comply with all relevant Federal, 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

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.
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: Follow steps 2 to 3 above and clean with hot water and detergent. 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 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 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 addition of 100mls of FLOWMAX per Litre of MONOTHANE.

Application Orientation: For interior use only.

Application Conditions: Do not use MONOTHANE 45 GLOSS at temperatures below 10°C or above 30°C. On cold days for at least one hour prior to application warm MONOTHANE 45 GLOSS, by wrapping container in an electric blanket (temp setting 1) for up to 2 hours.

Do not use MONOTHANE 45 GLOSS if relative humidity is in excess of 85% AND/OR if the moisture content of timber is in excess of the Australian Standard (9-14%).

Application Method: Apply with short nap (4 to 6mm) mohair roller, brush or lambs wool applicator. Allow 4.0-5.5 Hours to dry @ 25°C and 50% R.H. Do not return unused material to the can/drum.

New Floors: 1. (a) Apply first coat of TIMBERSEAL or DUOTHANE FAST A/DUOTHANE PART B, and second coat of MONOTHANE GLOSS or (b) Apply two coats of MONOTHANE GLOSS.

2. Apply one very even coat of MONOTHANE 45 GLOSS.

Old Floors: 1. Apply one or two coats of MONOTHANE GLOSS.

2. Apply one very even coat of MONOTHANE 45 GLOSS.

N.B. MONOTHANE CATALYST may be added to the first coat of MONOTHANE GLOSS to accelerate curing.

Fine sand or buff between coats with 150 mesh screen back.

Important Notice: The rate of drying of MONOTHANE 45 GLOSS will increase as the drying conditions increase. Hence open areas such as entrances, may tend to dry faster than areas with little or no airflow. Accordingly Urethane Coatings recommend;

1. Restrict air flow by sealing under and around doorways, windows, skirting boards, air conditioning ducts/central heating vents, chimneys, refrigerator cooling motors, etc. In extreme cases (to restrict air flow and/or to control airborne dust) it may be necessary to seal over ceiling penetrations such as down lights, lighting roses and air circulation vents.
2. Large areas must maintain a wet edge at all times, otherwise a lap mark may appear after curing. As appropriate add up to 100mls of FLOWMATE Wet Edge Extender per Litre of MONOTHANE 45 GLOSS.
3. Some timber species, notably Brushbox, Blackbutt, and Cypress Pine secrete oils and waxes which may migrate to the surface of the coatings causing surface imperfections. The addition of FLOWMAX Anti Rejection Fluid may assist to alleviate this problem.

5. DO NOT apply reduced sheen products (MONOTHANE SEMI GLOSS, MONOTHANE SATIN, and MONOTHANE MATT) directly over putty – ensure that at least one coat of MONOTHANE GLOSS separates putty from reduced sheen coats.
6. Monothane 45 Gloss is completely compatible with Urethane Coatings range of solvent based stains and accordingly Monothane 45 Gloss can be tinted with the addition of any Stain colour. Please refer to the Urethane Coatings WOOD STAINS Technical Data Sheet for addition rates and application techniques.

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

The can/drum contains flammable liquid 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

If affected by inhalation of vapour, remove to fresh air. If breathing difficulty persists or occurs later, consult a doctor and have label ready. If swallowed, give water and induce vomiting. **CONTACT DOCTOR OR POISONS INFORMATION CENTRE Australia 131126.** In case of eye contact, flush immediately with water for fifteen minutes and call a doctor. In case of skin contact, remove contaminated clothing and wash skin first with Methylated Spirit, then wash with soap and water.

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End of Technical Data Sheet