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.
Colour	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'	1.5
On bare timber (Soft Wood), applied with 4-6mm roller	2.00
On bare timber (Hard Wood), applied with 4-6mm roller	2.5
Reflectance (%)	20 – 40
Solubility	Not Soluble in Water.
Specific gravity (H_20 = 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
Thinning: To dilute the strength of colour or to extend the coverage of WOOD STAINS	**Add from 1% to 50%** WOOD STAIN REDUCER/EXTENDER. (Until the required concentration of colour is achieved.)
Coverage:	
Undiluted stain onto bare timber - softwoods	Approx. - **10m² to 14m² per Litre**
Undiluted stain onto bare timber - hardwoods	Approx. - **14m² to 16m² per Litre**
If mixed as a **TINT** into MONOTHANE, DUOTHANE, TUNGSEAL or MODFIFIED Oil	Each of these host products will cover approx. **10m² per Litre**
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.

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Application Data:

Preparation:

Floor:
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.

Shake Well:
Shake URETHANE COATINGS **WOOD STAINS** well before use.

Application:
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.

Application Tips – WOOD STAIN:
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 to Bare Timber or Timberseal:

Applying **WOOD STAIN** onto Bare Timber:

a) Excellent definition between grain patterns.
b) May produce slightly raised grain.
c) Easily worked into open grain.

Applying **WOOD STAIN** to timber treated with **TIMBERSEAL FIRST**:

a) Virtually eliminates edge bonding.
b) Virtually eliminates "hungry (dry) spots."
c) Even colour dispersion.
d) Slows migration of natural contaminants (Oils & Waxes to surface.)

DO NOT mix WOOD STAIN into TIMBERSEAL

Application Method:

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 (25oC and 50% relative humidity) and apply WOOD STAIN, allowing too 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 '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).

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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).

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 TUNGSEAL or MODIFIED OIL:

N.B. DO NOT mix STAIN into TIMBERSEAL

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

2nd Coat:
When mixing with TUNGSEAL or MODIFIED OIL GLOSS, add at rates of 10mls/litre (1%) until the required concentration of colour is achieved (DO NOT exceed 70mls/litre [7%]), 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 TUNGSEAL or MODIFIED OIL GLOSS (up to 40mls/litre [4%]) and apply as a third coat.

4th Coat:
Apply a final coat of natural TUNGSEAL or MODIFIED OIL GLOSS/MODIFIED OIL SATIN (as per required finish sheen).

The **addition of WOOD STAIN into the final coat** and MODIFIED OIL SATIN **is NOT recommended**.

Coverage:
Undiluted WOOD STAIN onto bare timber:
a) Softwoods - Approx. 12m^2 to 14m^2/litre.
b) Hardwoods - Approx. 14m^2 to 16m^2/litre.

When mixed as a tint into MONOTHANE, DUOTHANE, TUNGSEAL or MODIFIED OIL:
a) Each of these host products will cover approx. 10 m^2/litre.

Thinning:
To dilute the strength of colour, or to extend the coverage of **WOOD STAINS**, add from 1% to 50% (Until the required concentration of colour is achieved) of URETHANE COATINGS **WOOD STAIN REDUCER/EXTENDER**

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Drying Times:
Ensure timber is completely dry before staining.

Application Method - RAG ON, RAG OFF

Substrate	Touch Dry (Hrs) @ 25°C and 50% R.H.
Bare Timber (Soft Wood)	1.25
Bare Timber (Hard Wood)	1.50

Application Method – 6mm MOHAIR ROLLER

Substrate	Touch Dry (Hrs) @ 25°C and 50% R.H.
Bare Timber (Soft Wood)	2.0
Bare Timber (Hard Wood)	2.5
Timberseal on Soft Wood	3.0
Timberseal on Hard Wood	3.0

Reduced temperature and/or increased humidity will increase drying time.

When applying with ambient and/or surface temperatures at or above 25°C, add **WOOD STAIN REDUCER/EXTENDER** to increase drying time (i.e. extending drying times, slowing drying of the wet edge and decreasing the potential to leave lap and roller marks).

DO NOT apply WOOD STAINS when surface temperatures are below 10°C or above 30°C.

Allow **MINIMUM 6 to 8 HOURS TO DRY** before coating with natural MONOTHANE or DUOTHANE.

Allow **MINIMUM 12 HOURS to DRY** before coating with natural TUNGSEAL or MODIFIED OIL.

When tinting (mixing into) MONOTHANE, DUOTHANE, TUNGSEAL or MODIFIED OIL - refer to drying times of the appropriate host product.

Clean Up:
Clean rollers, applicators, brushes and equipment with URETHANE COATINGS CLEANING SOLVENT.

Packaging:
WOOD STAINS & WOOD STAIN REDUCER/EXTENDER are available in 1 & 4 litre cans.

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.

Health & Safety Directions:
For detailed Health and Safety information refer to the **WOOD STAINS** SDS 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.

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

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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

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