



TECHNICAL DATA SHEET

Issue Date: February 2011

PURATHANE PART B (BASE)

TWO PACK WATER BORNE POLYURETHANE TIMBER FINISH SATIN



URETHANE COATINGS PURATHANE TWO PACK SATIN is two component water borne polyurethane finish developed to provide your commercial timber and parquetry floors with extremely hardwearing and long lasting protection. The rapid curing of PURATHANE TWO PACK SATIN achieves optimal hardness up to 50% faster than single pack water borne polyurethane and higher solids provide greater resistance to wear.

Because water is used as the alternative carrier to solvent, URETHANE COATINGS PURATHANE SATIN emits low VOC'S (volatile organic compounds) and is therefore user and environmentally friendly but retains all the durable and hard wearing benefits of solvent based polyurethane.

PHYSICAL DESCRIPTION

Appearance:	Opaque liquid.
Colour:	Milky white.
PH:	>7
Specific Gravity @ 25°C:	>1.

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.

If there is risk of contamination, test for compatibility by applying PURATHANE TWO PACK on a small section of floor first. If 'craters' or 'fisheyes' appear add 20mls of URETHANE COATINGS PURAMAX Anti Rejection Fluid per Litre of PURATHANE TWO PACK and refer to Urethane Coatings PURAMAX directions.

MIXING

Shake each container for one minute and allow each to stand for two minutes, then Mix PURATHANE PART B (BASE) and PURATHANE PART A (HARDENER) at a ratio of 10 to 1 and thoroughly stir, then allow the mixture to stand for two minutes. Always add PURATHANE PART A (HARDENER) to PURATHANE PART B (BASE). Mixed PURATHANE TWO PACK has a pot life of 2 hours (@ 25°C and 50% R.H.). Smaller mixtures (< 2 Litres) and increased temperature and/or reduced humidity will reduce pot life.

APPLICATION

URETHANE COATINGS recommend a 3 coat system for most situations; 1st coat PURASEAL, followed by 2nd and 3rd coats of PURATHANE TWO PACK. A 2 coat system will achieve a high performance finish on hardwood when applied at the rate of 8m² per Litre.

Coat PURASEAL with either PURATHANE or PURATHANE TWO PACK.

N.B. (1) PURATHANE GLOSS, SATIN and MATT are completely compatible with each other, and can be mixed together and coated over each other. (2) PURATHANE TWO PACK GLOSS, SATIN and MATT are completely compatible with each other, and also can be mixed together and coated over each other. (3) Do not mix PURASEAL with PURATHANE or PURATHANE TWO PACK.

As an alternative to PURASEAL, URETHANE COATINGS solvent based TIMBERSEAL is a well proven fast drying sealer. As a 3 coat system TIMBERSEAL can be coated with PURATHANE or PURATHANE TWO PACK.

Application Orientation: UV Stable, ideal for internal use, verandas, and covered patios.

Application Method: 3 Coat System.

1st Coat. Decant PURASEAL directly from the container. Cut in edges with a paint edger or brush, taking care not to proceed excessively ahead of the main coating (particularly in hot and/or dry conditions). Apply PURASEAL at the rate of 10m² per Litre with a 10mm nap waterbased type roller cover or a waterbased applicator, disperse into a uniform finish taking care not to 'overwork the coating' allowing it to self level, and where ever possible, finish parallel with the grain. Allow 1.5 to 2 hours to dry (@ 25°C and 50% R.H.) and prepare to recoat. Do not return unused material to the container.

It is not necessary to fine sand or buff PURASEAL unless surface imperfections or raised grain exist – if so allow 3 hours to dry and then buff with 150 grit screen back (or finer), taking extreme care not to cut through the PURASEAL as this will allow the next coat to 'wet' the timber which may then dry a slightly different colour.

2nd Coat. After mixing PURATHANE TWO PACK, cut in edges with a paint edger or brush, taking care not to proceed excessively ahead of the main coating (particularly in hot and/or dry conditions). Apply PURATHANE TWO PACK at the rate of 10m² per Litre with a 10mm nap waterbased type roller cover or a waterbased applicator, disperse into a uniform finish taking care not to 'overwork the coating' allowing it to self level, and finish where ever possible parallel with the grain. Allow 2 hours 30 minutes to dry (@ 25°C and 50% R.H.) and buff with 150 grit screen back, vacuum thoroughly and prepare to recoat. Do not return unused material to the container.

3rd Coat. Repeat directions as detailed under **2nd Coat**, finishing parallel with the grain. Allow 8 hours to dry (@ 25°C and 50% R.H.) before providing access for light foot traffic.

Application Conditions: Do not apply PURATHANE TWO PACK when ambient/surface temperature is below 10°C or above 30°C.

Do not apply PURATHANE TWO PACK if relative humidity is in excess of 85%.

Do not apply PURATHANE TWO PACK if the moisture content of timber is in excess of 14%.

Sanding: PURATHANE TWO PACK is suitable for sanding after 2 hours 30 minutes drying (@ 25°C and 50% R.H.). A good indication that PURATHANE TWO PACK is sufficiently dry is when light sanding using a 150 grit screen back or buffing pad, produces a fine white powder.

USE and MAINTENANCE of a 3 COAT SYSTEM

PURATHANE TWO PACK SATIN requires 1.5-2 days (@ 25°C and 50% R.H.) to cure before regular use, and 4 days before using cleaning formulations. Avoid heavy traffic during this period. After the curing period sweep regularly with a soft bristle broom, and if preferred rugs/mats/carpet squares can be placed on the floor. To clean your floor, mix up to one cup Methylated Spirit into a bucket of hot water, and mop the floor regularly rinsing the mop. Use protective pads under legs of furniture. Dirt and grit are abrasive when on the soles of shoes, and can damage any coating. Accordingly mats placed at entrances can assist in removal of grit, reducing abrasion and protecting the coating.

DRYING TIME

Touch dry: 40 minutes. Through Dry: 2 hours. Sanding & Recoat: 2 hours 30 minutes. (Without sanding recoat in 90 to 120 minutes)

All drying times are @ 25°C and 50% relative humidity. Reduced temperature and/or increased humidity can delay drying time.

COVERAGE

10m² per Litre.

THINNING

URETHANE COATINGS PURATHANE TWO PACK does not require thinning. In hot and/or dry conditions and very large areas where it is difficult to maintain a wet edge, add 50ml of URETHANE COATINGS PURAMATE Wet Edge Extender per Litre of PURATHANE TWO PACK and refer to URETHANE COATINGS PURAMATE directions.

CLEAN UP

Thoroughly wash brush, roller, applicator and equipment with water. If PURATHANE TWO PACK is allowed to 'become tacky' on equipment, first rinse off excess with water, then wash off any build up of PURATHANE TWO PACK with URETHANE COATINGS CLEANING SOLVENT or Methylated Spirit, then rinse with water. Dry all equipment before reusing.

PACKAGING

URETHANE COATINGS PURATHANE PART B (BASE) is available in 5 and 10 Litre plastic bottles and PURATHANE PART A (HARDENER) is available in 500ml Plastic bottles.

SHELF LIFE

URETHANE COATINGS PURATHANE TWO PACK is best if used within 12 months from manufacture (refer to batch number on label), when stored in unopened containers under normal conditions of temperature (between 5°C and 30°C – DO NOT FREEZE) and humidity. Keep containers closed when not in use.

RESPONSIBLE CARE

URETHANE COATINGS are proud of a conservative tradition of responsible care, and therefore regardless that the VOC levels of PURATHANE TWO PACK are low, it is inappropriate to advise PURATHANE TWO PACK (and all other water borne coatings) is non toxic. Accordingly URETHANE COATINGS recommend that personal protective equipment is used when applying this product.

SAFETY DIRECTIONS

For detailed Health and Safety information refer to the PURATHANE TWO PACK MSDS as it is an integral part of using this product.

PURATHANE TWO PACK is classified as Non-Hazardous however URETHANE COATINGS recommend usage of this material must be in well ventilated conditions to minimise inhalation of vapours. If applying in confined conditions wear respirator with filters that conform to AS 1716. Prevent skin contact by wearing appropriate protective clothing. 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 a responsible manner.

FIRST AID

If affected by inhalation of vapour, remove to fresh air. If breathing difficulty persists or occurs later consult a doctor and have MSDS ready. If swallowed, give water or milk to drink and Do Not induce vomiting. Contact a Doctor or Poisons Information Centre Australia 131126. In case of eye contact, ensuring eyelids are held open, flush immediately with water for fifteen minutes. In case of skin contact, remove contaminated clothing and wash skin wash with soap and water.

PRODUCT IDENTIFICATION

UN No.: Not Regulated **D.G. Class:** Not Applicable **CAS No.:** PROPRIETARY
HAZCHEM: Not Applicable **PACK. GRP.:** Not Applicable
Correct Shipping Name: Nil as Non-Dangerous Goods
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**PROUDLY DISTRIBUTED BY**

For further Information, please contact us;

Urethane Coatings Pty Ltd A.C.N. 105 086 397 www.urethanecoatings.com.au
10 Powells Road BROOKVALE NSW 2100
Phone (02) 9905 3283 Fax (02) 9905 5688