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WaterKote 2K MATT is a new generation 2 component water borne polyurethane finish, incorporating an extended open time that provides exceptional flow and levelling resulting in a polyurethane matt film offering extremely hardwearing and long lasting protection to flooring and parquetry of all timber species. Because water is used as the alternative carrier to solvent, URETHANE COATINGS mixed WaterKote 2K MATT emits low VOC'S (volatile organic compounds) and is therefore user and environmentally friendly but this advanced technology retains all the durable and hard wearing benefits of solvent based polyurethane.

Uses: WaterKote 2K MATT is used for coating and finishing all timber species, cork, and particle board on commercial and residential floors. WaterKote 2K MATT can be applied over WaterKote SEALER, PURASEAL, TIMBERSEAL, MONOTHANE or DUOTHANE FAST A/DUOTHANE PART A and DUOTHANE PART B. WaterKote 2K MATT is compatible with and/or may be mixed with, WaterKote 2K GLOSS, and WaterKote 2K SATIN.

PHYSICAL APPEARANCE & PRODUCT SPECIFICATIONS	WATERKOTE 2K MATT Part B
Appearance	Opaque Liquid with mild odour.
Colour	Slightly opaque milky white.
WaterKote HARDENER Part A, mixed with Waterkote 2K MATT Part B; Drying Time (minutes) @ 25°C & 50% R.H.	Reduced temperature and/or increased humidity will slow drying (extend each drying phase).
Dust Free	30
Tack Free	40
Print Free	60
Hard Dry	100-130
Reflectance [Mixed] (%)	20-30
Viscosity 2K MATT Part B @ 25°C (seconds)	13-15
Viscosity [Mixed] @ 25°C (seconds)	16-19
Solid Content (%)	31 (±1)
Wet Film per coat [Mixed] (mm)	0.100
Dry Film per coat [Mixed] (mm)	0.033
Solubility	Soluble in Water.
Specific Gravity (H ₂ O = 1):	1.04
Sanding & Recoat @ 25°C & 50% R.H. (Hours)	2.5 – 3.0
WaterKote 2K MATT Sanding Properties	Excellent.
Thinning [Mixed] (Not Recommended)	Extend working time with addition of WaterKote Wet Edge Extender.
Coverage [Mixed] (m ² /Litre)	10
Full Cure [Mixed] @ 25°C & 50% R.H. (Days)	2-4, and 5-7 days before using cleaning emulsions.
Shelf life (Months)	12. Store between 5°C & 30°C, DO NOT Freeze.
Maintenance	Use protective pads under furniture legs lift don't drag.
Safety	Non-Hazardous.

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 METHYLATED SPIRIT or THINNERS and complete a 'Chemical wash' wiping parallel to the grain in a similar manner to applying a coating (NOT in a circular polishing manner). If a large area is to be cleaned, thoroughly rinse the mop or rag every 3m² 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 (PREVIOUSLY COATED): 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 after this preparation, the previous finish is NOT worn through to bare timber a primer/sealer coat is not necessary. Wipe the floor with Urethane Coatings METHYLATED SPIRIT or THINNERS. Test for compatibility by applying mixed WaterKote 2K on a small section of floor first. If 'craters' or 'fisheyes' appear add 20mls of Urethane Coatings PURAMAX Anti-Rejection Fluid per Litre of WaterKote 2K and stir thoroughly. Soon after application, inspect for rejections, and if necessary continue adding PURAMAX in increments of 10mls per Litre until the surface is free from rejections, or up to a maximum of 50mls per Litre of WaterKote 2K.

APPLICATION CONDITIONS: Do not apply WaterKote 2K MATT when ambient and/or surface temperature is below 10°C or above 30°C. On cold days for at least one hour prior to application warm WaterKote 2K MATT, by wrapping the container in an electric blanket (temp setting 1). In cold conditions, if possible & practicable operate artificial heating ([Radiator style] Column oil filled electric heaters are preferable – If any solvent based products have been used on site, DO NOT operate heating equipment that utilize naked flames or red hot surfaces).

DO NOT apply WaterKote 2K MATT if relative humidity is in excess of 80% AND/OR if the moisture content of timber is in excess of the Australian Standard (9 to 14%).

APPLICATION ORIENTATION: UV Stable, ideal for internal use (including all species of timber, parquetry, cork and particle board), verandas, and covered patios.

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

WATERKOTE 2K MATT PREPARATION:

MIXING REQUIRED at the ratio of; 10 Parts WaterKote 2K MATT Part B to 1 Part WaterKote HARDENER Part A. Shake each container well for at least one minute and then stand each container for three minutes before mixing. ADD and SIMULTANEOUSLY mix thoroughly, WaterKote HARDENER Part A to WaterKote 2K MATT Part B, then allow the mixture to stand for two minutes. Mixed WaterKote 2K has a pot life of 2 hours (@ 25°C and 50% relative humidity). Smaller mixtures (< 2Litres) and increased temperature and/or reduced humidity will REDUCE pot life.

N.B.

- 1) WaterKote 2K GLOSS, 2K SATIN and 2K MATT are all completely compatible with each other, and can be mixed together and coated over each other.
- 2) WaterKote 1K GLOSS, 1K SATIN and 1K MATT are completely compatible with each other, and also can be mixed together and coated over each other.
- 3) As an alternative to WaterKote SEALER, Urethane Coatings solvent based TIMBERSEAL is a well proven fast drying sealer. As a 3 coat system TIMBERSEAL can be coated with WaterKote 1K, or WaterKote TWO PACK.

APPLICATION METHOD: 3 Coat System.

1st Coat. Decant WaterKote SEALER directly from the container. Cut in edges with a paint edger or brush, taking care not to proceed more than 2 to 4 meters ahead of the main coating (particularly in hot and/or dry conditions). Apply WaterKote SEALER at the rate of 10m² per Litre with a 10 to 12mm nap water borne type roller cover, disperse into a uniform finish taking care not to 'overwork' the coating allowing it to self-level, and wherever 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 WaterKote SEALER unless surface imperfections or raised grain exist – if so allow 2.5 to 3 hours to dry and then buff with 150 grit screen back, taking extreme care not to cut through the WaterKote SEALER as this will allow the next coat to 'wet' the timber which may dry a slightly different colour.

2nd Coat. Apply Mixed WaterKote TWO PACK or decant Waterkote 1K directly from the container. Cut in edges with a paint edger or brush, taking care not to proceed more than 3 to 5 meters ahead of the main coating (particularly in hot and/or dry conditions). Apply mixed WaterKote TWO PACK or WaterKote 1K at the rate of 10m² per Litre with a 10 to 12mm nap water borne type roller cover, disperse into a uniform finish taking care not to 'overwork' the coating allowing it to self-level, and wherever possible, finish 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. Apply mixed WaterKote 2K MATT and repeat application 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.

DRYING TIME:

Touch dry: 30 minutes.

Through Dry: 2.0 hours.

Recoat: 2.5 to 3.0 hours.

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

IMPORTANT TIPS:

Typically water borne coatings are not as subject to sheen variation when compared with reduced sheen solvent based products. For best results Urethane Coatings recommend:

1. Restrict air flow by sealing under and around doorways, windows, skirting boards, air conditioning ducts/central heating vents, chimneys, cooling fans of refrigerator 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. Maintain a wet edge at all times, and when coating onto the wet edge focus on merging the new coat into the wet edge ensuring the two coats become the same thickness, otherwise a lap mark may appear after curing. As appropriate add 40 to 60mls of PURAMATE Wet Edge Extender per Litre of mixed WaterKote 2K MATT. N.B. PURAMATE Wet Edge Extender and PURAMAX Anti-Rejection Fluid are compatible with each other and therefore, both together can be added to WaterKote and/or PURATHANE, however do not exceed a combined total of 100mls per Litre of WaterKote or PURATHANE.

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 PURAMAX Anti-Rejection Fluid into ALL coats may assist to alleviate this problem.
4. DO NOT apply reduced sheen products 1K or 2K (WaterKote SATIN or MATT, and PURATHANE SATIN or MATT) directly over putty as the silica in the putty may react with the matting agent in WaterKote or PURATHANE turning the putty white – ensure that at least one coat of WaterKote GLOSS or PURATHANE GLOSS separates putty from reduced sheen coats.

COVERAGE:

Mixed WaterKote 2K, 10m² per Litre.

THINNING:

Thinning WaterKote 2K MATT is not recommended. In hot and/or dry conditions and very large areas where it is difficult to maintain a wet edge, add up to 50ml of Urethane Coatings PURAMATE Wet Edge Extender per Litre of mixed WaterKote 2K MATT and refer to PURAMATE directions.

CLEAN UP:

Thoroughly wash brush, roller and all associated equipment with water. If WaterKote 2K MATT has become 'tacky' [has partially dried] first rinse of excess with water, then wash off any build-up of WaterKote 2K MATT with Urethane Coatings CLEANING SOLVENT as the 1st wash, then wash with water. Dry roller, brush and associated equipment before reusing.

PACKAGING:

WaterKote 2K MATT is supplied in 5 & 10 Litre Plastic cubes.

SHELF LIFE:

WaterKote 2K MATT 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.

MAINTENANCE:

WaterKote 1K and WaterKote TWO PACK require 2 to 4 days (@ 25°C and 50% R.H.) to fully cure and 5 to 7 days before using cleaning formulations. Avoid heavy foot traffic during this period. After the curing period, regularly sweep with a soft bristle broom or an antistatic mop and as appropriate wash with a mixture of '3 Litres of hot water to one cup of METHYLATED SPIRIT'. To look after the floor, place rugs/mats/carpet squares on the floor and place a door mat outside each entrance, and if possible a softer mat immediately inside each door. The entry mats will assist to

remove any sand, grit and small stones from shoe-soles/feet, that when walked over the floor are abrasive, acting like sandpaper. We caution against the use of vacuum cleaners, particularly if the bristles are worn as the cleaning head may then scratch the floor. The frequency of cleaning is dependent on the level of traffic, amount of grit carried onto the floor, and activity of children, and pets etc. In high traffic situations application of a sacrificial wear surface may be considered, i.e. a polish to take the brunt of the traffic. Suitable polishes are; Urethane Coatings **PURASHINE**, Johnsons One Go, Reckitts Long Life, or Peerless Gemini. These polishes are water borne and easily applied with a foam applicator. Allow at least 10 days for WaterKote 2K MATT to cure before application of Polish. USE protective pads under legs of furniture and ALWAYS AVOID dragging furniture over the floor.

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:**NON-HAZARDOUS**

UN No.: Not applicable

CLASS: Not applicable

PKG: Not Applicable

Correct Shipping Name:

Not regulated for Transport of Dangerous Goods.

SAFETY:

For detailed Health and Safety information refer to the WaterKote 2K Safety Data Sheet (SDS) or visit; www.urethanecoatings.com.au

FIRST AID:**Eye Contact**

If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact

If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Inhalation

If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

Ingestion

Immediately give a glass of water.

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.

Notice to Reader:

URETHANE COATINGS make no representation as to the completeness and accuracy of the information contained on 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