



**Urethane Coatings**

2 - 4 Green Street  
Banksmeadow 2019 Sydney  
NSW 2019, Australia

Tel: +61 2 9666 3888  
Fax: +61 2 9666 4805

**WaterKote® 2K**

Water-Borne Polyurethane Coating

**TECHNICAL DATASHEET**

**SUMMARY:**

WaterKote® 2K is a 2-component water-borne polyurethane topcoat providing the toughest protection for timber, parquetry and cork floors, while being non-hazardous, low-VOC and easy-to-use. Using the highest grade polyurethane dispersion technology, WaterKote 2K has been developed to be applied easily to reduce application error and imperfections while giving excellent resistance to wear and chemicals. Resulting in a clear finish which maintains the natural beauty of a timber floor while being extremely hardwearing and long-lasting protection for all timber species.

**SUMMARY OF KEY CHARACTERISTICS:**

- **Easy-to-use**; excellent flow and levelling which reduces lap marks and picture framing.
- Tested on most **Australian timber species** including; Brush box, Iron Bark, Black Butt, Jarrah, Spotted Gum, Cypress Pine and oak varieties
- Can be used with **Urethane Coatings standard products**; Timberseal, Monothane and Duothane systems – to achieve the **SYSTEM YOUR CUSTOMER WANTS** without limitations.
- **Polyurethane dispersion** highest grade polymer technology which provides a high-build, excellent durable, scratch and chemical resistance coating
- UV-Resistant – polyurethane film.
- **High hardness-development** allowing return to service in 24 hours from film formation. Rugs and other floor coverings 3 days. (25°C and 50% R.H – may vary if conditions change)
- **Sand-able**; Film will powder-up when using a low-rotational screen back at 150# to 220# without clogging
- **Very Low odour**
- Low VOC <150g/L – classified as '**non-hazardous**' material according to GHS. Easy and safe to use.

This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

A Division of Era Polymers ABN 14 003 055 936

[www.urethanecoatings.com.au](http://www.urethanecoatings.com.au)



Global-Mark.com.au®



WORLD RECOGNISED ACCREDITATION

**USES:**

Internal use only suitable use on all timber, parquetry and cork floors.

- Hotels
- Airports
- Apartments
- Community halls
- Restaurants and pubs
- Schools
- Residential home
- Office builds

**Physical Properties:**

<b>Type of lacquer:</b>	2-component water-borne polyurethane topcoat
<b>Topcoat Sheen (60°C):</b>	Gloss: 90-80                      Satin: 50-40 Matt: 30-15                      Bare Timber: <10
<b>Solid Content:</b>	35 ±2%
<b>Mix Ratio:</b>	1 part WaterKote 2K Part A to 10 parts WaterKote 2K Part B
<b>Pot-Life:</b>	2 hours at 25°C and 50% relative humidity (shorter if warmer)
<b>Dry-time:</b>	-Recoat: 4 – 6 hours* -Sanding: 8 – 10 hours* -Full traffic: 24 hours* -Possible to cover: 3 days* <i>*under normal climate conditions 20°C and 50% R.H</i>
<b>Application tool:</b>	Brush or Roller (10mm to 12mm Nap)
<b>Application rate:</b>	approx. 1L per 10-12m <sup>2</sup> * <i>*coverage rate greatly dependent on substrate and floor conditions</i>
<b>Safety:</b>	Non-hazardous
<b>Cleaning:</b>	Wipe tools clean of residual coating material then rinse with minimal water.                      Dried material can be removed using Urethane Coatings CLEANING SOLVENT
<b>Shelf-life:</b>	Best before 12 months from manufacture
<b>Storage/transport:</b>	Temperature must not fall below 5°C and exceed 25°C when storing or transporting the material.
<b>Disposal:</b>	Handled in accordance of local authorities
<b>Pack-size:</b>	WaterKote 2K Part B (topcoat): 4.5L WaterKote 2K Hardener: 0.45L Total WaterKote 2K Kit: 4.95L

This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

A Division of Era Polymers ABN 14 003 055 936

[www.urethanecoatings.com.au](http://www.urethanecoatings.com.au)



**PREPARATION:**

Check that timber is adequately seasoned as any subsequent cracking, warping and shrinkage may compromise adhesion. Ensure surface is well sanded (recommended 120 grit final sand) and is dry and thoroughly clean removing to be free of wax, oils, grease, silicone, sanding dust and any other contaminates before application. Prior to application of WaterKote 2K (part B – Topcoat) it is recommended to seal the timber. Please see suggested systems below:

**RECOMMENDED SYSTEMS:** *Urethane Coatings recommends a three coat system for most situations (see table below)*

1 <sup>st</sup> coat	WaterKote SEALER	Timberseal	Monothane 45 Gloss	Duothane / Fast A
2 <sup>nd</sup> coat	WaterKote 2K Topcoat	WaterKote 2K Topcoat	WaterKote 2K Topcoat	WaterKote 2K Topcoat
3 <sup>rd</sup> coat	WaterKote 2K Topcoat	WaterKote 2K Topcoat	WaterKote 2K Topcoat	WaterKote 2K Topcoat

When applying onto any solvent topcoat systems such as Monothane or Duothane – **it is required to roughen up the surface** either with a 120# to 150# grit screen back to ensure mechanical adhesion is obtained. If this step isn't completed then there may be inter-coat adhesion failure.

**APPLICATION CONDITIONS:**

Do not apply WaterKote 2K when ambient and/or surface temperature is below 10°C or above 30°C

Do not apply WaterKote 2K if relative humidity is in excess of 80%

Do not apply WaterKote 2K if moisture content of timber is in excess of (9% to 14%)

Optimum application conditions are between 15°C and 25°C with a relative humidity of 40% to 50%

**APPLICATION SUMMARY:**

1. Recommended to apply WaterKote Sealer or Timberseal for first seal coat.
2. Thoroughly mix WaterKote 2K (Part B – Topcoat) to ensure contents and matting agents are mixed through before addition of WaterKote 2K Hardener. Allow to sit for 1 minute.
3. At the ratio of 10 Part WaterKote 2K (Part B – Topcoat) and 1 part WaterKote 2K (Part A – Hardener) IMMEDIATELY thoroughly mix material for 1 minute and then allow to sit for 3 minutes. WaterKote 2K comes in 4.5L which has enough head-space to add WaterKote 2K Hardener directly into the container to mix.
4. Pot life for mixed material is 2 hours at 25°C and 50% relative humidity (shorter if warmer)
5. Good practice to filter all material through filter before application
6. Cut in around edges with paint brush or roller
7. Apply WaterKote 2K with a 10-12mm Nap roller at approx. 1L per 10m<sup>2</sup>.
8. Allow to dry for 4 hours before next coat. If sanding/buffing is required please allow 8 to 10 hours before cutting back.

This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

## APPLICATION GUIDE:

### 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 10m<sup>2</sup> 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 2k 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 2K at the rate of ~10m<sup>2</sup> 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 8 to 10 hours 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 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

### CLEAN UP:

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

### SHELF LIFE:

WaterKote 2K 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.

This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

A Division of Era Polymers ABN 14 003 055 936

[www.urethanecoatings.com.au](http://www.urethanecoatings.com.au)

**MAINTENANCE:**

WaterKote® 1K and WaterKote® 2k require 24 hours (@ 25°C and 50% R.H.) dry for full use and 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 “Urethane Coatings FLOOR CLEANER”. 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.

**SAFETY:**

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

**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.

**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**

This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

A Division of Era Polymers ABN 14 003 055 936

[www.urethanecoatings.com.au](http://www.urethanecoatings.com.au)