



# Resene Qristal ClearFloor 2K

## Waterborne flooring polyurethane

### Interior

Technical Data Sheet D506A V1-4-26

This data sheet replaces  
all previous issues

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Resene Qristal ClearFloor 2K is a tough, two component, low VOC waterborne acrylic-modified polyurethane floor coating designed to provide superior protection, long-term performance, and an attractive finish on timber flooring.

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#### Typical uses

- Timber surfaces
- Solid hardwood timber flooring
- Engineered hardwood timber flooring
- Cork tiles
- Commercial and residential

#### Performance

- Low odour
- Has similar performance to solventborne systems, including moisture-cured systems
- Can be re-coated without the need for full removal of existing coatings
- Fast dry
- Multiple coats can be applied in a day
- Suitable as a finish for timber floors stained with Resene Waterborne Colorwood stain (refer to label instructions and [Data Sheet D50a](#)) and for use with Resene Colour Enhance (refer to label instructions).

#### Limitations

- Do not apply at temperatures below 10°C or when the relative humidity exceeds 85% or when these environmental conditions exist during drying and curing.
  - Dries very quickly at high temperatures and low humidity. It is important to maintain a wet edge.
  - Allow seven days for coating to reach full cure.
  - Not suitable for application to vertical surfaces, multiple thin coats will be required for vertical surfaces such as stair risers.
  - Oily timbers such as Totara may require additional preparation to remove surface oils before coating (including cleaning with white spirits).
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## Physical properties

<b>Vehicle type</b>	Waterborne urethane-acrylic
<b>Pigmentation</b>	None
<b>Solvent</b>	Water
<b>Finish</b>	Satin and semi-gloss
<b>Abrasion resistance</b>	Very Good
<b>Heat resistance</b>	Good
<b>Solvent resistance</b>	Good
<b>Durability</b>	Good
<b>Colour</b>	Milky - Dries clear
<b>VOC level</b>	60 grams per litre

## Surface preparation

### General

Clean down thoroughly to remove all dirt, dust and loose material. Ensure surface is free from oil, waxes and grease (including floor polishes) and mould.

### New floors

Fill all nail holes and cracked timber with a suitable filler. Thoroughly sand surfaces prior to coating. Finish off with fine sandpaper, remembering to sand with the grain.

### Old clear coated floors

For best results, complete removal of existing polyurethane or varnish is recommended to achieve a uniform finish. Alternatively, sound coatings may be sanded to remove gloss and provide a suitable key for adhesion. Applying a polyurethane over a combination of bare timber and existing coated flooring may result in colour variation. Thoroughly vacuum all surfaces to remove sanding dust and contaminants, paying particular attention to dust, residual polish and waxes trapped between tongue and groove joints.

**Before applying any coating ensure the surface is clean, dry and contaminant-free. Refer also to Resene Surface Information and Preparation Data Sheet (SIPDS) for **Timber** as appropriate.**



SIPDS No. 2  
Timber

## Application

1. Wear protective gloves, clothing and eye protection during mixing
2. Mix in a container size which is double the size of the final mix volume. Gently shake the contents of the base container and transfer all to the clean and dry mixing container. Add the contents of the hardener container to the base container with power mixing and continue to mix for one minute. Transfer the mixed product back into the hardener container to fill to about three quarters full, recap lid tightly then hand shake to dissolve any hardener that was not originally transferred into the mixing container. Add this to the mixed base and power mix for an additional two minutes.
3. Thin with water after base and hardener have been thoroughly mixed (see below). Power mix to incorporate the water thoroughly. DO NOT shake after power mixing. DO NOT add more than the specified thinning rate.
4. Allow the mixed product to stand for 10-15 minutes before using.
5. Apply 3-4 coats of Resene Qristal ClearFloor 2K, allowing dry time between coats. For best results do not apply more than 2 coats per day to reduce risk of timber swelling from excess moisture.
6. Lightly sand with 240 grit sandpaper prior to application of the final coat of clear. Recoating can be undertaken when the applied coating is no longer milky in appearance and does not leave a fingerprint when pressed.
7. To avoid increasing entrained air when rolling, do not overwork the wet film (lightly lay off with a 50% overlap).



Avoid applying pressure to the sleeve when rolling as this will reduce the wet film thickness and overspread the product.

8. Do not tightly reseal the lid as mixed product can generate carbon dioxide gas, potentially causing pressure build-up and lid failure.
9. Refer to the Polyurethane a Floor Project Sheet for more information and advice on application techniques, product mixing and tips.

Apply by using a quality Synthetic brush, including the PAL DeckMaster and/or the Resene PAL No. 7 roller sleeve.

<b>Typical coverage</b>	10 sq. metres per litre (varies with application method)
<b>Dry film thickness</b>	27 microns at 10 sq. metres per litre
<b>Dry time (minimum)</b>	Tack free: 2-3 hours at 18-25°C
<b>Recoat time (minimum)</b>	3-4 hours at 18°C. Maximum 3 days at 18 °C
<b>Mix ratio</b>	10 parts Base : 1 part Hardener
<b>Pot life</b>	3 hours at 20 °C
<b>Usual no. of coats</b>	3 for light traffic areas, 4 for heavy traffic areas

## Thinning

MUST be thinned - Thin 10% by volume of mixed product with clean water (e.g. once mixed, 5L of product will require thinning with 500ml of clean water).

## Clean Up and Product Responsibility

Clean up with warm water and detergent.

See online for guidance on [cleanup and disposal](#) without polluting the environment.

Return any unwanted product or packaging to the [PaintWise recycling service](#) (NZ) or [Paintback](#) (AU).

## Precautions

1. All sanding dusts can be harmful. Always wear appropriate protection.
2. Drying is dependent upon temperature, humidity and ventilation (see Limitations). Application outside of the recommended environment conditions may inhibit curing and performance.
3. Ensure that the mixed product is used within the stated pot life. The pot life of the mixed material is given for a specific temperature. Higher temperatures will reduce the pot life; conversely lower temperatures will increase it. Mixed product will remain liquid well past stated pot life. Application of mixed product beyond stated pot life will have a detrimental effect upon film formation, adhesion, and performance.
4. WHEN MIXED WITH THE CORRECT HARDENER THE MIXED PRODUCT CONTAINS ISOCYANATES. This product is not suitable for spray application.
5. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves, eye and face protection.

Read the current Safety Data Sheet before specifying or using Resene products. Resene Technical Data Sheets are updated from time to time. This Technical Data Sheet is provided as a guide for this product and may differ from the most recent version. Please discuss your project with your Resene Technical Representative, local Resene ColorShop team or reseller to ensure you have the right products to give you the best quality finish for your specific project.

## Safety Data Sheet (SDS)

Read the Safety Data Sheet before use, visit [www.resene.com/datasheets](http://www.resene.com/datasheets).