

Don't get caught in the cold

Maximise midwinter work with Resene Wintergrade paints

Painting in winter can be a challenge with the cold weather playing havoc with application and performance.

Waterborne paints are typically based on tiny, thermoplastic particles that deform and stick to one another during the stresses of drying and film formation. Particles deliberately engineered to be soft, form films easily even at quite low temperatures. The softness, however, extends to the finished film, making it prone to damage from dirt retention. Hard particles can be made, but they require heat, or large amounts of plasticising solvents, in order to form films.

A compromise was required and the industry accepted particles that needed some plasticising solvent, and some heat (10°C or higher) to form useful films.

Since that time, novel technologies have arisen that can overcome the hardness/film-formation dilemma. One of the methods is to build the sub-micron plastic particles in two separate phases – a soft phase that will coalesce at very low temperatures; and a hard, tough phase that will contribute good film properties – a paint version of peanut toffee. Because coalescing solvents are not necessary, an added bonus of the technology is that it is very green with low VOC.

Waterborne paints can be formulated without humectants (typically added to slow the dry in hot weather), which makes them faster to dry in winter.

The Resene Technical team developed the novel technology into a series of Resene Wintergrade products that will dry in temperatures down to 2°C.

Wintergrade products are the same price as the standard products, so painters can select whichever product fits in best with the local weather conditions without affecting the contract price.

Resene

the paint the professionals use

The Resene Wintergrade range of products includes these Environmental Choice approved products:



Resene. Licensed products since 1996

- **Resene Wintergrade Lumbersider**
(see Data Sheet D34a) waterborne satin.
- **Resene Wintergrade Sonyx 101**
(see Data Sheet D30a), waterborne semi-gloss.
- **Resene Wintergrade Hi-Glo**
(see Data Sheet D31a), waterborne gloss.
- **Resene Wintergrade X-200**
(see Data Sheet D62a), acrylic waterproofing membrane.
- **Resene Wintergrade Quick Dry**
(see Data Sheet D45a), waterborne primer undercoat.
- **Resene Wintergrade Roof Primer**
(see Data Sheet D407), waterborne roof primer.

All of these products can be applied in temperatures as low as 2°C. Do not apply in temperatures over 15°C – use standard Resene decorative finishes instead.

Resene Wintergrade products in use:



Copthorne Hotel

www.resene.co.nz/archspec/products/copthorne.htm



Durie Hill Elevator tunnel

www.resene.co.nz/archspec/products/durie_hill.htm



Hawkes Bay Opera House and Precinct

www.resene.co.nz/archspec/products/opera_house.htm



Lakeside apartments, Wanaka

www.resene.co.nz/archspec/products/lakeside_apartments.htm



Palmerston North Commercial Union building

www.resene.co.nz/archspec/products/cold.htm



The Clocktower at the Cardrona Alpine Resort

www.resene.co.nz/archspec/products/clock.htm



The Pot Warehouse

www.resene.co.nz/archspec/products/pot.htm



Westpac Community Theatre

www.resene.co.nz/archspec/products/westpac_theatre.htm

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Call 1800 738 383,
visit www.resene.com.au
or email advice@resene.com.au

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Call 0800 RESENE (737 363)
visit www.resene.co.nz
or email advice@resene.co.nz