



resoltech
ADVANCED COMPOSITE TECHNOLOGY

RESOLCOAT 1010

WATER BASED WOOD-EPOXY COATING

Resolcoat 1010 is a unique epoxy system formulated for the coating of wood. It provides excellent adhesion to timber, a very good finish and can be over coated without sanding. Also suitable to vitrify damaged timber.

Being water based, the system is almost insensitive to moisture in wood or the environment. Part of the FORMULA WOOD range.

FEATURES

**Ease of use
Ultra low toxicity
Not moisture sensitive**

**High gloss or Matt finish
High adhesion to timber
Over coating without sanding**

MIXING

Mixing ratio by volume: 1 to 1. 1010 Resin and 1014 hardener.

A matt finish hardener is also available: 1016.

The system can be used as it is or diluted with water. Add 0 to 1 more volume of water.

It is better to stir the resin and hardener mixture prior to adding water.

APPLICATION

The surface should be clean of dust and degreased prior to applying the coating.

The viscosity is adjustable by adding water.

The system can be applied by brush or roller.

A fresh coat of Resolcoat 1010 is visible, due to its milky aspect. This colour disappears when curing as the water is expelled from the film the same way a solvent works. This feature is very useful since it makes the fresh coat **visible** to the user.

At least 2 coats should be applied as a single coat may stay slightly microporous (letting steam through but not water).

The system is not sensitive to **moisture** and can therefore be applied onto damp timber. It will not go white the way other epoxy systems do when in contact with moisture.

Resolcoat 1010 is compatible with the other FORMULA WOOD systems and all epoxy products in general.

Sanding is not necessary between coats as long as recoating occurs within one week.

Resolcoat 1010 can be used as a wood primer prior to painting.

When using a large batch, we advise stirring the mixture from time to time in the pot.

To vitrify damaged or rotten timber, dilute with 1 volume of water to reduce viscosity.

RESTRICTIONS

Do not use Resolcoat 1010 with fiberglass, since fiberglass is water sensitive.

Do not use the system if the temperature is below 10°C.

We do not recommend spraying this system.

CURING

A film of Resolcoat 1010 will be touch dry in 3 hours at 20°C.
It will be hard and totally dry in 12 to 24 hours.
The water in the mixture will evaporate, in a similar way to solvents in solvent based systems.

PHYSICAL & MECHANICAL PROPERTIES

Epoxy bis phenol A/F Epichlorhydrine with polyamine hardener.
Density: 1.1g/cm³.
Viscosity: Less than 300 mPas.
Abrasion resistance: <100mg/1kg/1000 cycles (CS17).
Flexural resistance: No effect on a plate curved on a 32mm radius.

SPECIAL FEATURES

The system can provide both glossy and matt finishes.

GLOSSY FINISH

Apply one coat of the diluted system over wood and then 2 more undiluted coats.

MATT FINISH

Use the 1016 hardener to obtain a matt finish for the last coat. This hardener should only be used over at least one other coat using the standard hardener.

The system is not UV stabilized. For applications requiring high UV resistance, apply a polyurethane varnish as a last coat or a layer of Resolcoat 1070. This is not required for applications inside.

PACKING & STORAGE

Resolcoat 1010 is available in packs of 2Kg, 4Kg, 10Kg, 20Kg, 60Kg and 400Kg.
Shelf life is one year in sealed containers as provided. Keep containers sealed and away from heat and cold.
Do not store in freezing temperatures.

HEALTH AND SAFETY

Resolcoat 1010 is amongst the safest epoxy systems available. The hardener is so safe it is even not UN classed. In case of skin contact, just wash with water as it is water soluble.
In case of eye contamination, wash with plenty of water and seek medical advice. It is important to wash the eye thoroughly as the product tends to seek water from it.

More information is available on www.resoltech.com.

NOTICE. Due to its policy of continual development and improvement, Resoltech reserves the right to alter specifications and prices without prior notice. Any information is given in good faith, based on test results and believed to be accurate, and intended for use by customers at their own risks.

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