



RESOLCOAT 1010

WATER BASED EPOXY WOOD COATING SYSTEM

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 repair damaged timber.

RESOLCOAT 1010 is used as a varnish and as a primer. Being water based, the system is almost insensitive to moisture in wood or the environment. Available in glossy and matt finishes. Suitable for priming wood, coating floors, protecting and repairing wood. Part of the FORMULA WOOD range.

MIXING

MIXING RATIO	1010 + 1014 (GLOSSY)	1010 + 1016 (MATT)	WATER
BY VOLUME	1 + 1	2 + 3	0 to 1

2 hardeners are available: 1014 (GLOSSY) and 1016 (MATT)

Mix both resin and hardener first, stir the mixture and then add water if required.

The mixing ratio must be accurately measured. It is not possible to change the ratio, it would result in lower mechanical properties. The mixture should be thoroughly stirred to ensure full homogeneity. It is important to pay attention to the container's surface.

APPLICATION

RESOLCOAT 1010 is formulated to protect and enhance wood surfaces. The system can be used as a sealant (2 coats over plywood sheets prior to using them in boat construction), a varnish (marine and floors), a structural enhancer for damaged timber.

- The surface should be clean of dust and degreased prior to applying the coating.
- 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).
- 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.
- The system can be used with or without adding water. Adding water will make it even thinner and ensure a deep penetration of the timber. The water acts as a thinner and evaporates.
- When using a large batch, we advise stirring the mixture from time to time in the pot.
- To repair damaged or rotten timber, dilute with 1 volume of water to reduce viscosity.
- Tools cleaning with water.
- RESOLCOAT 1010 cannot be used for laminating fiberglass since it is water based.

For more information, please refer to the applications technical bulletins (TechNotes), available on request.

CURING

Pot life	1 hour at 20°C.
Touch dry	3 hours at 20°C.
Hard	12 to 24 hours.
Full cure	24 hours at 20°C.
Overcoating	After 5 hours.

SPECIAL FEATURES

- USE AS A PRIMER: apply 1 to 2 coats of 1010 + 1014 over the wood.
- USE AS A VARNISH: Apply 1 coat of 1010 + 1014 first. Overcoat with 1010 + 1014 for a glossy finish and 1010 + 1016 for a matt finish.

UV resistance: 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. RESOLCOAT 1010 produces a thin protective film with a high solid content.

PHYSICAL & MECHANICAL PROPERTIES

Epoxy bis phenol A/F Epichlorhydrine with polyamine hardener.

Density 1.1g/cm³.

Viscosity Mixture: 300mPas Resin: 100mPas hardeners: 300mPas

Abrasion resistance <100mg/1kg/1000 cycles (CS17).

Flexural resistance No effect on a plate curved on a 32mm radius.

Chemical resistance High resistance to toluene (3-7 days), bleach 10vol (7-28 days), ethanol (>28 days), nitric acid (>28 days), lactic acid (>28 days), deionised water (>28 days).

PACKING, TRANSPORT & 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 & 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.

The data provided in this document is the result of tests and is believed to be accurate. We do not accept any responsibility over the mishandling of these products and our liability is limited strictly to the value of the products we manufacture and supply.



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ADVANCED COMPOSITE TECHNOLOGY

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