



resoltech
ADVANCED COMPOSITE TECHNOLOGY

RESOLTECH 1020

MULTIPURPOSE WOOD-EPOXY SYSTEM

Resoltech 1020 is a high performance wood epoxy system formulated for bonding, coating, filling and repairing wood. Several hardeners allow for adjusting working time from 15mn to 5 hours. Multipurpose system for all wood epoxy applications.

FEATURES

Ease of use
Low toxicity
Multipurpose system

High mechanical properties
High adhesion to timber
Low viscosity for impregnation

MIXING

Mixing ratio by volume: 3 to 1. 1020 Resin and 4 hardeners: 1023 (slow), 1024, 1026 & 1028 (fast).

WARNING: The mixing ratio must be accurately followed. 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 note that epoxy systems tend to heat up much faster in a pot than as a thin film. It is therefore necessary to only mix the necessary amount usable within the given pot life. Keeping the mixture in flat open containers reduces the risks of exothermic reaction.

APPLICATION

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

The system can be applied by brush or roller.

Wood should be reasonably dry. Workshop temperature above 18°C recommended.

COATING:

At least 2 coats should be applied to seal wood. Sanding is required between coats unless the second coat is applied within the first coat curing time.

BONDING:

Resoltech 1020 can be thickened by adding microfibres and other additives.

OTHER APPLICATIONS

Resoltech 1020 is suitable for sheathing and fiberglass laminating.

Resoltech 1020 is compatible with the other FORMULA WOOD systems and all epoxy products in general.

Resoltech 1020 can be used as a wood primer prior to painting. It can also be used with metals such as steel, stainless steel, aluminium.

Additives can be added to produce fillers and adhesive pastes.

RESTRICTIONS

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

Avoid keeping large amounts in a container, especially with fast hardeners.

CURING

Pot life with hardener:	1023	1024	1026	1028
70g @ 22°C:	8 hours	4H30	3hours	35minutes
Full cure:	14 days @ 20°C.			

Faster cure is possible by increasing temperature.

PHYSICAL & MECHANICAL PROPERTIES

Resin aspect:	Pale yellow liquid.	Viscosity @ 22°C:	850mPas
Hardeners aspect:	Clear liquid.	Viscosity @ 22°C:	20 to 120mPas
Mixture aspect:	Pale yellow liquid.	Viscosity @ 22°C:	200 to 350mPas
Mixture density:	1.1g/cm ³ .		

Tensile strength:	65MPa	Tensile modulus:	3200MPa
Flexural strength:	90MPa	Flexural modulus:	3400MPa
Elongation at break:	10%		
Max Tg:	70°C		

SPECIAL FEATURES

The system is not UV stabilised. 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

Resoltech 1020 is available in packs of 1.3Kg, 6.5Kg, 39Kg and 260Kg.

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

It is advised to follow basic rules such as avoiding skin contact, wear masks when producing dust. Please read our standard health and safety sheet for more information.

In case of skin contact, just wash with water as it is water soluble.

In case of eye contamination, wash with water and seek medical advice.

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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