



# 1080

## EPOXY LAMINATING SYSTEM

RESOLTECH 1080 is a high performance structural laminating system that combines high thermal and mechanical performances with an ambient cure.

RESOLTECH 1080 is suitable for the manufacture of large composite parts, blades, hulls, moulds and injection.

### MIXING RATIO

The mixing ratio is variable according to the selected hardener.

By weight:

1080 + D1082 100+37

1080 + D1084 100+33

1080 + D1086 100+25

Hardeners available: D1082 slow, D1084 medium, D1086 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 standard procedure of working with epoxy systems applies to the RESOLTECH 1080.

The system can be applied by hand, infusion and injection.

The system is clear and has good UV resistance.

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

### CURING

Workshop conditions: 18 to 25°C, 70% humidity maximum.

Hardener	Pot life	Conditions
D1082	4 H 30mn	50g @ 23°C
D1084	1 H 30mn	50g @ 23°C
D1086	20mn	50g @ 23°C

Full cure 14 days at 20°C or 15 hours @ 60°C

## **MECHANICAL PROPERTIES**

Tensile strength	80MPa
Flexural strength	140MPa
Tensile Modulus	4,000MPa
Flexural Modulus	3,800MPa
Max Tg	110°C

## **PHYSICAL PROPERTIES**

Resin aspect	Clear liquid
Hardener aspect	Clear liquid
Resin viscosity	500mPas
Hardener viscosity	70 to 120 mPas
Viscosity of mixture	300 to 400 mPas
Density of mixture	1.1

Above values given at 23°C.

## **PACKING & STORAGE**

Resoltech 1080 is available as follow:

1kg, 5kg, 30kg, 200kg.

Shelf life is one year in sealed containers as provided. Keep containers sealed and away from heat and cold.

## **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 eye contamination, wash with water and seek medical advice.

More information is available on **[www.resoltech.com](http://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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