

Description

FUSIONFIX GP2 is a high-performance spray adhesive designed specifically for temporary positioning of fibre reinforcements, core materials, inserts and vacuum bagging consumables during resin infusion and other composites laminating processes.

A combination of high tack, requiring only minimal application, and special formulation, allows the adhesive to be used with polyester, vinylester and epoxy resin systems without detectable change to the mechanical properties of the cured laminate.

Key Features

- High tack, from a very light application
- Long working time
- Clear; no milkiness or contamination of cosmetic laminates

Recommended Uses

FUSIONFIX GP2 is recommended for all tacking and positioning needs including positioning of surface plies, backing plies, core materials and bagging consumables for all resin systems including epoxy, polyester and vinylester, except for tacking the first layer of reinforcement to the mould face of cosmetically critical components using epoxy resin.

	Epoxy	Poly/Vinylester	Epoxy Prepreg
Tacking surface-ply to mould face	NO*	YES	YES
Positioning core materials	YES	YES	YES
Tacking backing plies	YES	YES	YES
Positioning bagging consumables	YES	YES	YES

* Although FUSIONFIX GP2 is clear, it is not recommended for tacking reinforcement directly to the mould surface in cosmetically critical infusions using epoxy resin, where FUSIONFIX EP should be used instead.

Resin Compatibility

Vinylester and Polyester Resin

FUSIONFIX GP2 is 100% compatible with polyester and vinylester resins and will dissolve fully into the resin matrix when used with these systems. FUSIONFIX GP2 will leave no residue on the mould or component when used with polyester or vinylester resin systems.

Epoxy Resin

Although GP2 does not dissolve in epoxy resin, it is compatible with epoxy resin and when used appropriately will result in no measurable reduction in mechanical performance or cosmetic contamination such as milkiness or discoloration in the cured laminate. However, because GP2 is not dissolved by epoxy resin, spraying it directly onto the mould surface will leave a tacky residue on both the mould and the component after demoulding. This residue can be easily wiped away with a mild solvent such as IPA but doing so will leave a slight texture on the component surface where the particles of adhesive have been lifted out and may also remove release agent from the mould.

When working with epoxy resin and wanting to tack reinforcement directly to the mould surface, we would recommend using FUSIONFIX EP which is epoxy-based and will not leave a tacky residue on the part or mould. FUSIONFIX GP2 can then be used for subsequent plies, core materials and bagging consumables, where its higher tack and longer working time may be preferable over FUSIONFIX EP.

How to Use

General Use

Thoroughly shake the can before use. FUSIONFIX GP2 cans have a self-cleaning nozzle and should not be inverted and sprayed after use.

FUSIONFIX GP2 is high tack; apply sparingly, using the minimum application necessary.

Spray at a distance of 30cm.

Wait for solvent evaporation before positioning; 10-60 seconds for fabrics, 30 seconds to 10 minutes for foams and films, depending on environment.

Because FUSIONFIX GP2 is not dissolved by epoxy resin, when working with epoxy, adhesive sprayed directly onto the mould surface will leave a tacky residue which should be wiped off the cured part with IPA after demoulding.

Use with FUSIONFIX EP

FUSIONFIX GP2 is ideally suited for use in conjunction with FUSIONFIX EP, in which case FUSIONFIX EP is used to tack the cosmetically critical surface ply to the mould surface whilst FUSIONFIX GP2, with its higher tack and longer open time, is used for backing plies, core materials and bagging consumables.

Storage

FUSIONFIXGP2 should be stored in a dry environment between 15°C and 30°C (not exceeding 50°C) and lifted off the ground to prevent corrosion to the can. Stored correctly, FUSIONFIX GP2 will have a shelf-life of 12 months.

Disclaimer

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Leaders in materials, equipment and training for advanced composites

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Version 1.1
Revised 10/09/2024

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