

Description

FUSIONFIX EP is an exceptional dual-purpose composites spray adhesive designed exclusively for use with epoxy resin.

FUSIONFIX EP is based on a modified epoxy, making it 100% compatible with epoxy systems used in resin infusion, RTM and prepreg, with zero reduction in mechanical performance of the cured laminate. FUSIONFIX EP remains perfectly clear, even after elevated temperature cure cycles.

Key Features

- Zero visual contamination
- Zero reduction in mechanical properties
- No tacky residue on the mould surface or component
- No discolouration, even after high temperature cure

Recommended Uses

FUSIONFIX EP's perfectly clear formula can be used to position reinforcements and core materials during resin infusion and other composites laminating processes, including the positioning of cosmetically critical reinforcements such as carbon fibre, directly onto the mould surface.

Additionally, FUSIONFIX EP can be used to stabilise delicate cosmetic reinforcements, making them significantly easier to cut and handle without fraying or distortion.

Resin Compatibility

FUSIONFIX EP is epoxy-based and compatible with all conventional epoxy systems, including hand-laminating and infusion resins, and epoxy prepregs.

It is not compatible and should not be used with any other resin chemistry (such as polyester or vinylester).

How to Use

Thoroughly shake the can before use. After use, clean the nozzle by turning the can upside down and spraying briefly.

Positioning Adhesive

As a positioning adhesive, FUSIONFIX EP is medium tack with a relatively short working time.

Apply sparingly, using the minimum amount necessary to achieve the required level of tack.

Spray at a distance of 20cm. Wait 5-60 seconds, depending on environment, for solvent evaporation before positioning.

Adhesive sprayed directly onto the mould surface will leave an invisible residue on the cured part which may be less resistant to solvents or aggressive cleaning products than the surrounding epoxy. Where cosmetically critical components are likely to be exposed to such substances, a protective 2k clearcoat is recommended.

Fabric Stabiliser

FUSIONFIX EP can be used to stabilise delicate dry fabrics, making them easier to cut and handle without fraying or distortion.

For a light amount of stabilisation, fabric should be unrolled onto a clean, flat surface and misted with a coating of FUSIONFIX EP from a distance of around 30cm (12").

For a more robust stabilisation, similar to the PROFINISH stabilisation available on some carbon fabrics, fabrics should be unrolled onto a non-stick plastic release film and then sprayed with a liberal application of FUSIONFIX EP.

For maximum stabilisation, a second layer of release film can be placed over the surface and pressed onto the wet adhesive to push it into the fabric and then removed to allow the adhesive to dry.

Allow FUSIONFIX EP to fully dry for 1 hour before handling the fabric.

Use with FUSIONFIX GP2

FUSIONFIX EP is ideally suited for use in conjunction with FUSIONFIX GP2, 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

FUSIONFIX EP 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 EP 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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