

# SAERfix<sup>®</sup> EP



## DESCRIPTION

Fabrics finished with SAERfix<sup>®</sup> EP are self-adhesive. The adhesive, developed by SAERTEX (patent pending) is compatible with epoxy resins and is chemically incorporated into the matrix in the course of curing.

## APPLICATIONS

SAERfix<sup>®</sup> EP is ideally suited to closed molding processes such as RTM, RTM light; infusion, VAP, etc. ...

As the drapeability of the fabric is largely unaffected by the SAERfix<sup>®</sup> adhesive, special fabrics, which incorporate SAERfix<sup>®</sup> EP, are suitable for preforming, for example by blanks being fixed to geometrically demanding mold surfaces.

## COMPARISON

**A laminate manufactured with SAERfix<sup>®</sup> EP and a laminate manufactured with unbonded fabrics:**

## ADVANTAGES

Using SAERfix<sup>®</sup> EP reduces the time needed to apply the reinforcement to the vertical mold (e.g. in rotor blade manufacture or boat hulls). Spraying with additional adhesive for setting is no longer necessary – and that saves money. Less adhesive and faster processing = reduced cost per square metre.

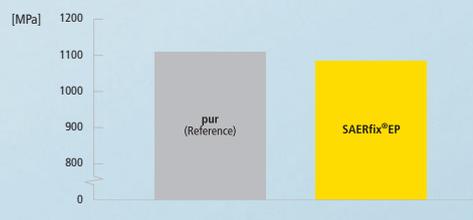
**Processing:** SAERfix<sup>®</sup> EP is easy to handle. If necessary the fabrics can be removed and then reapplied as needed. The fibres in the fabric stay better extended thanks to SAERfix<sup>®</sup> EP. Once the fabric has been laid it can then neither slip nor form ripples, but remains in the required orientation.

**Quality:** In contrast with other fabric adhesives commonly used, SAERfix<sup>®</sup> EP has virtually no influence on the mechanical characteristics of the laminate. Thanks to its elasticising effect, it has shown to actually improve the fatigue resistance. And in contrast with commonly used handspray adhesives, the adhesive agent is evenly distributed on the fabric.

### COMPARISON OF THREE-POINT BENDING STRENGTH

(DIN EN ISO 14125)

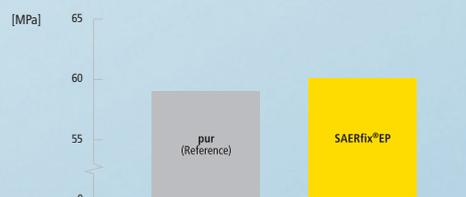
Product: UD 0° 1190g/m<sup>2</sup>



### COMPARISON OF ILSS

(DIN EN ISO 14130)

Product: UD 0° 1190g/m<sup>2</sup>



# SAERfix® UP



“easy to handle”  
“cost-effective”  
“better performance”

## DESCRIPTION

The particular feature of SAERfix® UP reinforcing textiles is their self-adhesive effect, which is compatible with UP and vinylester resin systems.

## APPLICATIONS

SAERfix® UP is ideally suited for closed molding processes such as RTM, RTM light; infusion, VAP, etc.

## COMPARISON

A laminate manufactured with SAERfix® UP and a laminate manufactured with conventionally bonded fabrics:

## ADVANTAGES

Using SAERfix® UP reduces the time needed to apply the reinforcement to the vertical mold (e.g. boat hulls). Spraying with additional adhesive for setting is no longer necessary – and that saves money.

Less adhesive and faster processing = reduced cost per square metre.

**Processing:** SAERfix® UP is easy to handle. If necessary the fabrics can be removed and then reapplied as needed. The fibres in the fabric do not lose their orientation thanks to SAERfix® UP. Once the fabric has been laid it can then neither slip nor form ripples, but remains in the required orientation.

**Quality:** SAERfix® UP fabrics are treated with adhesive uniformly, which makes for an optimum performance.

Mechanical properties: composites with SAERfix® UP fabrics have shown to have better mechanical characteristics than components with conventionally bonded fabrics.

### COMPARISON OF ILSS

(DIN EN ISO 14130)

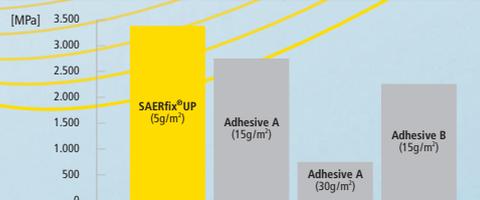
Product: BIAx -45°/+45° 600g/m<sup>2</sup>



### COMPARISON OF SHEAR TESTING

(DIN EN ISO 14129)

Product: BID 0°/90° 600g/m<sup>2</sup>



(Other results on request)



SAERTEX worldwide

Germany, France, Portugal, USA, South Africa, India, China



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