

# Solar Plax

## UV curing fibre-glass reinforced repair film

SOLAR PLAX is a unique, easy to use repair film activated by UV irradiation or sunlight and cures. The film consists of fibre-glass reinforced polyester with superior adhesion and a long service life. No mixing, no weighing, no error sources.



- Easy to use – simply cut to the size of the area to be repaired, stick it on – finished
- Extremely durable fibre-glass reinforced plastic (GFRP)
- Vibration resistant, stays flexible
- Weather, UV and moisture resistant
- Good post-processability (grinding, drilling, varnishing, etc.)
- Oil and solvent resistant
- Permanently temperature resistant from  $-40^{\circ}\text{C}$  to  $+200^{\circ}\text{C}$
- Does not shrink or expand during the application and curing process
- Adheres to all surfaces except polypropylene (PP)
- Cures quickly (starting from 5 min., depending on the UV irradiation)

### Fields of application:

#### Industry:

Maintenance and repair of roofs, stairs, water basins, tubes, pipelines, cable shafts, switch boxes, etc.

**Cars/trucks/trailers/transportation:** fenders, radiators, exhaust, pipes, box bodies, wind deflectors, all plastic and car body parts

**Leisure/hobby/sports:** jet skis, canoes, boats, fibre-glass reinforced cladding, surf boards, model making, windows, fences, roofs, doors and any surfaces made of wood, metal, glass, ceramics, masonry, concrete and plastic.

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MARSTON-DOMSEL GmbH

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Technical specifications	
Colour: grey	
Curing mechanism: ultra violet (UV), Natural or UV lamp	
Material thickness: 1.7 to 1.9 mm	
Weight 2.9 kg/m <sup>2</sup>	
Typical values	Test method
Tensile strength 55 MPa	BS2782 to 1994
Flexural strength > 130 MPa	ASTM D790-03
Flexural modulus 5.98 GPa	ASTM D2344
Ductile yield >3%	BS 2782 to 1994
Thermal expansion 2.9 10 <sup>-5</sup> degree C	ASTM D696-03
Impact strength >60 kJ/m <sup>2</sup>	BS EN ISO 180
Hardness >60	ASTM D2583 Barcol-0
Resistance to pressure >200 MPa	ASTM D695-2002a
Adhesion to steel > 14 MPa	ASTM D4541-02
Fire rating: class 1	BS476 pt 7:1997 ASTM E84
Water vapour permeability 0.28 g/m <sup>2</sup> /24h/mmHg	ASTM E96
Flash point > 32oC	ASTM D 93
Electrical properties	
Dielectric strength	9KV/mm as per IEC 243
Arc resistance	greater than 180 seconds as per ASTM D495
Tracking resistance	greater than 600 volts as per IEC 112
Insulation resistance	10 to the power of 13 ohms as per IEC 93

## Handling instructions:

- The surface must be absolutely clean, dry and residue-free.
- Roughen the surface with a wire brush or sand paper (100 grit) and rinse with soapy water.
- Allow to dry completely.
- Remove the black protective foil without exposure to UV irradiation. Quickly cut Solar Plax to the size of the area you wish to repair (+ 5 cm) and immediately return remaining material to the black protective foil.
- Remove the white cover band as well as the transparent foil if you wish to apply a coat of varnish.
- Place Solar Plax onto the area to be repaired with the adhesive side facing down, press on firmly and expose to sunlight/UV irradiation. The curing time varies between 5 (sunny) and 50 minutes (cloudy), depending on the sun irradiation. Remove the transparent protective film after the end of the curing process (if not done earlier) and post-process as desired (grinding and drilling).

Item no.: MRF.75 Qty: 20  
MRF.220 Qty: 10  
Display: MRF.75-D 20 pieces



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