

QuickPatch - UV Light activated Repair patch

1. Properties:

QuickPatch is a very unique, easy-to-use UV- or sunlight activated, self adhesive repair patch. It is fibreglass reinforced Polyester with extremely good adhesion properties for long lasting repairs. Patch is non-flammable, non-toxic, and adhesive is not harmful to skin. Easy to apply, no mixing, no weighing – one step no mess.

2. „Pro“-facts:

- ◆ Easy application – just cut, peel and stick – finished
- ◆ Extremely durable, Fibreglas re-inforced Polyester/Plastic
- ◆ Flexible and waterproof
- ◆ Weather- and UV resistant
- ◆ Can be drilled, tapped, sanded and painted in less than an hour
- ◆ Resistant against many chemicals, solvents and oils
- ◆ Constantly Temperature resistant from -40°C to + 200°C
- ◆ No shrinkage or expansion during the application or after curing
- ◆ Bonds to all surfaces except Polypropylene (PP)
- ◆ Fast curing (starting with 5 minutes depending on UV intensity)

3. Applications:

Industry:

Repair and maintenance of roofs, steps, tanks, pipes, lines, gutters, switch boxes, etc.

Automotive, Truck & Transport:

Bumpers, radiators, rusted areas and exhaust leaks, fuel tanks and lines, box bodies, headlamp housings, all kinds of plastics and body components

Hobby/Sport/DIY:

Jet skis, canoes, boots, surf boards, prototyping, modelling, windows, doors, fences, roofs, drainage lines, pools, spas, garden equipment, sanitation systems, bait tanks and lines, sporting equipment and various other surfaces like GRP, wood, metal, glass, ceramics, concrete and plastics.

4. Application methods:

1. Surface should be cleaned, dry and free of any containment.
2. Sand or grind surface with sanding paper (P 100) or wire brush. Clean with soapy water afterwards.
3. Remove black protective sheet. Cut QuickPatch into place without exposing to UV/Sunlight. Place remaining material back into black protective sheet.
4. Remove white backing tape to expose the sticky resin. In case of painting also remove transparent film backing
5. Apply Solar Patch to repair area with sticky side down. Press firmly and expose to UV-/sunlight. Curing times depending on UV intensity between 5 minutes (sunny) and 50 minutes (cloudy).
6. Poly Solar cures completely under the support of an UVA-lamp with wave length of 320 -400 nm.

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Product Data	
Appearance	Sheet Lamination
Colour	Grey
Curing Mechanism	Ultra Violet (UV). Natural or UV Lamp
Material Thickness	1.7 – 1.9 mm. Material can also be supplied in 1.0-1.5 mm range
Weight	2.9 kg /m ²
Technical Data	
Test Methods	
Tensile strength: > 55 MPa	BS 2782 bis 1994
Flexural strength: > 130 MPa	ASTM D 790-03
Flexural modulus: 5,98 GPa	ASTM D 2344
Elongation at break: > 3%	BS 2782 bis 1994
Coeff. of thermal expansion: 2,9*10 ⁻⁵ K ⁻¹	ASTM D 696-03
Impact resistance: > 60 kJ/m ²	BS EN ISO 180
Hardness: > 60 Barcol	ASTM D 2583
Compressive strength: > 200 MPa	ASTM D 695-2002
Adhesion to C-steel: > 14 MPa	ASTM D 4541-02
Water vapour permeability: 0,28 g/m ² /24h/mmHg	ASTM E 96
Heat distortion: > 145°C	ASTM D 648
Fire rating: Class 1	BS 476 pt7:1997 ASTM E 84
Flash point: > 32°C	ASTM D 93
Electrical properties	
Dielectric strength: 9 kV/mm	IEC 243
Arc resistance: > 180 sec.	ASTM D 495
Tracking resistance: > 600 V	IEC 112
Insulation resistance: 10 to the power of 13 ohms	IEC 93
Physical- chemical properties	
Heat resistance	Wet: 90°C Dry: 200°C
Chemical resistance	Good. Chemical resistance chart available on request

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Handling / Storage	
Working life	Vigilant care should be taken to QuickPatch from direct sunlight or UV lamps during application as this will greatly reduce the working life of the material
Environment	Under no circumstances should QuickPatch be applied in wet conditions or wet substrates
Safety Precautions	Please refer to the product Material Safety Data Sheets for detailed information on handling, shipping and disposal
Storage	Store in cool, dry conditions (not more than 25°C). Avoid storage near any heat source or sunlight. Always store material in its original packing in a horizontal position. Boxed material should be rotated 180°. Every 30 days for optimum condition.
Shell Life	12 months when stored as per manufacturers instructions.

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Valid is only the actual version of this technical data sheet in each case.

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