

## Fibre Optic Lighting Potting Opti-tec 5053-F-B

### Application

Unitising of common end of fibre optic lighting harnesses.

**Substrates bonded** Stainless steel, brass, glass optical fibres

**Process** Potting and polishing

**Pre-treatment** None

**Curing conditions**

- 120°C for 5 minutes

**Resistances required**

- High temperature resistance up to 200°C

**Key selection criteria**

- Glass-like, Shore D 85 hardness which can be machined and polished

**Customer benefits**

- High surface energy, low viscosity material wicks between optical fibres for complete coverage
- Long pot life allows component adjustments during assembly
- Cures to full strength in minutes, boosting productivity



### Product description

**Opti-tec 5053-F-B** is a two-component, low viscosity, heat curing epoxy designed for high-temperature applications.

#### Features and benefits:

- Strong adhesion to most materials used in fibre optics and optics, including metals, ceramics, glass and plastics
- High glass transition temperature results in excellent high temperature performance and creep resistance
- Specially formulated to have very low skin sensitivity
- Resists moisture, vapours and most chemicals
- Colour change upon cure, going from clear to deep translucent red
- Long pot life and good handling characteristics

#### Suitable in applications involving:

- Endoscope manufacture and repair
- Optoelectronics
- Sub-sea electronics potting



Let's start by talking about your application

t 01865 842842

e [info@intertronics.co.uk](mailto:info@intertronics.co.uk)

[www.intertronics.co.uk](http://www.intertronics.co.uk)

**intertronics**

Station Field Industrial Estate  
Banbury Road, Kidlington  
Oxfordshire, England OX5 1JD