

# TECHNICAL DATA SHEET

## POLYESTER ISOPHTHALIC BRUSH GREY TRICURE TOPCOAT

### PRODUCT IDENTIFIER

|                       |                                                                               |
|-----------------------|-------------------------------------------------------------------------------|
| <b>Product Name:</b>  | <b>Polyester Isophthalic Brush Grey<br/>TriCure Topcoat<br/>1363802 Rev.1</b> |
| <b>Revision Date:</b> | <b>23-SEP-2025</b>                                                            |

### MAIN CHARACTERISTICS

#### Product Type

Preaccelerated Unsaturated polyester Top Coat  
in styrene, Isophthalic Modified

#### Appearance

Various Colours

#### Key Features & Benefits

Filled  
Good resistance to Surface Yellowing  
Medium reactivity  
Paraffinated  
Pigmented  
Preaccelerated  
Super Low Viscosity  
Thixotropic

#### Description

Designed for coating flat surfaces exhibiting good levelling properties.  
BR Top Coats are ready to use, easy to brush, sag resistant, fast curing and require only the addition of the correct amount of an appropriate MEKP to cure .  
Topcoats are not designed to be used for swimming pool recoating/relining applications .  
Topcoats contain wax and cure tack free to provide an attractive cosmetic film on the back of composite pieces. They are not suitable to be used as in Mould applied gel coats.

#### Application

Brush grade materials are designed for hand application to the mould and carefully levelled with a brush for even thickness.  
Brush grade materials are not designed for spraying or diluted with solvent to spray.  
Do mix the Gel coat prior to use, preferably using a mechanical mixer with sufficient power for the appropriate container at low rpm.  
Mixing for 10 minutes every day is usually sufficient. Do NOT use air bubbling directly to mix.  
Do not overmix the gel coat, it may break down viscosity, increasing tendency to sag and also result in styrene loss which could contribute to porosity.  
Ensure Gel coat is used at minimum liquid temperature of 18°C including the mould used and workshop environment conditions.  
Film thickness above 600 micron may pre-release, trap porosity, crack and are more subject to weathering discolouration.

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Film thickness below 300 micron may not cure properly, may be hard to patch, have more print through, and be more susceptible to water blisters.

Follow best practice application techniques.

Ideal thickness is 500 micron with a range of 400-600 microns wet film.

This top coat is ready to use - It contains wax to allow tack free curing.

Use only the recommended MEKP Peroxide dosage between 1.2 to 3.0% w/w

## Shelf Life & Storage

Please ensure you rotate stock and use within shelf life.

Please note the Shelf life for this product relates to unopened containers; Only open container prior to use.

Read carefully the Safety Data Sheet before use Store in the shade, out of direct sunlight.

Keep storage temperature below 25°C.

Shelf-life will be reduced at higher temperature.

## CHARACTERISTICS<sup>(1)</sup>

| PROPERTIES                                   | TEST METHOD  | UNIT        | TYPICAL VALUES      |
|----------------------------------------------|--------------|-------------|---------------------|
| Shelf life at 23°C in the dark               |              | months      | 4                   |
| Density - 25°C                               | MT-C G 001 O | g/cm³       | 1.10 - 1.28         |
| Solid content                                | MT-CG 001C   | %           | 62 - 69             |
| <b>RHEOLOGY</b>                              |              |             |                     |
| Brookfield viscosity at 23°C, sp 5 rpm 5     | MT-CG 025V   | mPa.s       | 4000 - 8000         |
| Brookfield viscosity: 5 rpm / 50 rpm at 25°C | MT-CG 025V   |             | 3.8 - 4.5           |
| <b>REACTIVITY</b>                            |              |             |                     |
| Gel Time at 25°C + 1,8% MEKP50               | MT-C G003 R  | minutes     | 8 - 13              |
| Curing time at 25°C + 1,8% MEKP50            | MT-C G003 R  | minutes     | 15 - 30             |
| Peak exotherm at 25°C + 1,8% MEKP50          | MT-C G003 R  | °C          | 145 - 170           |
| <b>FILM PROPERTIES</b>                       |              |             |                     |
| Tack free Film cure : 500-700u at 25°C       | MT-C G 901 R | min.        | <60                 |
| Complete Hide                                | MT-C G 901 Q | microns wet | Depends upon colour |

1) Thoroughly test the gelcoat in your applications before full-scale use. Geltimes may vary due to the reactive nature of these materials and due to different brands of curing additives. Always test on small scale before formulating large quantities.

## PROPERTIES OF THE GELCOAT'S BASE RESIN IN CURED STATE <sup>(2)</sup>

| PROPERTIES   | TEST METHOD      | UNIT | TYPICAL VALUES |
|--------------|------------------|------|----------------|
| Curing cycle | 16h at 40°C      |      |                |
| HDT          | ISO 75-2A (2013) | °C   | 54             |

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|                            |                |     |     |
|----------------------------|----------------|-----|-----|
| <b>Tensile strength</b>    | ISO 527 (2012) | MPa | 59  |
| <b>Elongation at break</b> | ISO 527 (2012) | %   | 3.8 |

2) Properties are typical values, based on material tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

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### Tricel Composites (GB) Limited

Unit A, Foxway,  
Off Atkinson Street,  
Leeds, West Yorkshire,  
LS10 1PS.

**Tel:** +44 (0)113 270 3133

**Email:** sales@tricelcomposites.co.uk

### Tricel Composites (NI) Limited

Unit 4, Milltown Ind. Estate, Greenan Road.  
Warrenpoint, Newry  
Co. Down,  
BT34 3FN.

**Tel:** +44 (0)284 175 3738

**Email:** sales@tricelcomposites.co.uk

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