“Scott Bader's unique, innovative products have allowed us to keep our competitive edge. We have been able to make valuable savings both in time and labour costs, without compromising on quality.”

Chris Gates, Operations Director, Princess Yachts

WELCOME TO MARINE TECHNOLOGY EXCELLENCE

Scott Bader has been the undisputed expert in marine technology for 70 years and continues to drive future innovations today. It pioneered the use of fibre reinforced plastic (FRP) in the marine industry and it was a Scott Bader resin that was used in the first ever composite boat in 1951 - the Tod 12 Dinghy.

The Crystic® product range is the most widely used by the world’s leading boat builders with a reputation not only for creating exceptional aesthetics and producing unmatched performance, but also for providing long term protection from weathering. This is in conjunction with Scott Bader’s structural adhesives, Crestamould® matched tooling systems and our industry-leading technical support service makes us a winning formula.

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*http://www.cvrda.org/dinghydata/tod-12ft/*
ACHIEVING ENVIRONMENTAL STANDARDS

We understand that achieving latest emission standards is key to a sustainable future which is why our manufacturing operations and general working environments are second to none. By developing bio-based resins for the marine industry we look after our customers as well as the world.

Scott Bader was again ahead of its time when we introduce a low styrene emission resin over 40 years ago and the successes have been coming ever since. In 2020 we were delighted to announce that our Crestabond® M7-05 and M7-15 structural adhesives were awarded NK certificates in accordance with MED 2014/90/EU.

Today we have a whole range of products and processes that reduce the environmental impact of composites, including closed mould systems, which virtually eliminate polluting emissions, and the innovative application of Crestomer structural adhesives in bulkheads.

QUALITY ASSURED

Before a product goes to market it will have completed Scott Bader’s rigorous development programme. All new gelcoats are tested under the most extreme conditions, including 12 months continuous exposure in Florida in order to satisfy the accelerated weather programs and blistering tests.

Once tested, each batch of gelcoat manufactured at Scott Bader has to pass stringent quality control tests that ensure consistent quality, colour, surface finish and handling. Ultimately, products are then approved by the key industry standards as appropriate, such as Lloyds, ClassNK, DNV-GL and RINA. Scott Bader’s industry leading technical support team are available to assist customers with technical advice and help them to achieve their own approval programs.

“Gaining these MED approvals (Crestabond® M7-05 and M7-15) is a significant step forward for the growth of our structural adhesives in the ship building industry. We are delighted to offer industry leading MED approved structural adhesives to the ship building industry worldwide.”

Ingrid Skullenberg, Scott Bader’s Group Product Manager for Adhesives

WORKING IN PARTNERSHIP

Scott Bader is a Commonwealth company that is owned by its employees rather than shareholders, meaning it cannot be taken over or forced to merge with other companies. Customers can feel confident that Scott Bader are committed to long term working partnerships and will be designing and supplying composite products for years to come.

Our marine range of high performance products are specifically designed to meet the ever changing needs of our customers. Scott Bader boasts its own in-house laboratory testing facilities allowing for a rapid response to customer requests.

“Hi Spec Plastics have been in business since 1968 designing and manufacturing liferaft containers. Over the years we have tried and tested a number of different tooling gelcoats but none have exhibited the performance excellence of Crystic® 14PA. One of the moulds produced using 14PA has had over 4,000 lifts over a number of years with no evidence of dulling, crazing or cracking of the gelcoat surface. Crystic® 14PA has exceeded all our expectations for a tooling gelcoat and we strongly suggest you try it.”

Gary Bates, Managing Director, Hi Spec Plastics

“Scott Bader’s unique, innovative products have allowed us to keep our competitive edge. We have been able to make valuable savings both in time and labour costs, without compromising on quality.”

Chris Gates, Operations Director, Princess Yachts

“Scott Bader has been supplying Chantier AMEL for 20 years. The technical service and the quality of products meet our requirements to our utmost satisfaction.”

Monsieur Jacky MALEIX, Production Manager, Chantier AMEL

HEAR WHAT CUSTOMERS SAY
The quality of your mouldings can only be as good as the quality of your mould, making it essential that you use an appropriate and quality tooling system, like Scott Bader’s Crestamould® Matched Tooling System.

Using chemically matched products that work together, the high-performance Crestamould® Matched Tooling System delivers an excellent standard of mould production with great benefits to your project:

- Significantly increases the lifetime of moulds in production
- Enhanced gloss finish and gloss retention compared to competitive products
- Easy to apply to required thickness
- Trouble-free de-moulding, even complicated shapes
- Reduced water marking
- Reduced fibre print through for a much smoother gelcoat surface
- Fast mould production

Crestamould® Resin
Crestamould® Rapid Tooling Resin (RTR) 4010PA is a rapid tooling resin which incorporates outstanding handling properties, lower viscosity, improved shrinkage control and is catalysed with standard MEKP catalyst. It enables faster mould making and eliminates surface distortion.

Crestamould® Skin Coat
Crestamould® Skin Coats VE679PA and VE690PA are pre-accelerated thixotropic DCPD modified vinylester resins that have been developed as a skin coat in tooling applications. They have excellent blister resistance and reduced print through.

Crestamould® Gelcoat
Crestamould® Gelcoat 15PA is a superior performance vinylester tooling gelcoat for making moulds designed to have a long service lifetime and retain high gloss levels after multiple pulls. It is easy to apply and achieves good coverage. There is no gassing of the gelcoat ensuring a very low porosity surface and it cures with a standard MEKP catalyst. Available in both spray and brush.

Crystic® Primecoat
Crystic® Primecoat is a high build, polyester coating material which allows the rapid surfacing of patterns constructed from materials such as wood, MDF and GRP. It can be applied wet-on-wet up to a thickness of 1.5mm in one operation without sagging or draining from vertical surfaces.

Crystic® Glosscoat
Crystic® Glosscoat is a polyester coating designed to be applied over prepared Crestamould® Primecoat to give a glossier and more durable surface. The material hardens rapidly and can be easily sanded to a smooth surface which can be polished to high gloss.

Crestafix® Fairing Compound
A water resistant, low-density polyester-based fairing compound, Crestafix® F26 has excellent adhesion to cured fibre-reinforced polyester and vinylester laminates. The material sand easily, gives a hard finish after a full cure, yet is not brittle and has good impact strength. Crestafix® F26 is a suitable base for all marine finishes such as polyester, urethane and epoxy paints.

Crestamould® Tooling Paste
Designed for milling of large plugs or direct limited production moulds with CNC multiple axis machines, Crestamould® T29 is a modified polyester compound, available in sprayable or extrudable versions.

Crestamould® Sealer
Laminating with polyester resin on top of polystyrene foams has never been possible despite various impractical methods of protection from preventing the styrene foam from dissolving when in contact with polyester resin. Crestamould® B21 sealing resin solves this problem – just one coat applied by brush will seal the surface and laminating with polyester resins can begin two hours after application.
CRYSTIC® MATCHED PERFORMANCE SYSTEMS

If you’re looking for the ultimate in aesthetics and blistering resistance then look no further!
Over 40 years ago Scott Bader designed the concept of chemically matching the performance of products to work synergistically and successfully tackle the phenomenon of osmosis, or blistering. After decades of commercial use, the benefits of using Crystic® Matched Performance Systems have been shown to extend beyond eliminating blistering:

- Exceptional aesthetics
- Improved strength and rigidity
- Greater strength to weight ratios
- Better fuel economy and performance
- Superior water resistance

**GELCOAT | SKINCOAT | RESIN**

<table>
<thead>
<tr>
<th>Method</th>
<th>Gelcoat</th>
<th>Skincoat</th>
<th>Resin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spray application</td>
<td>Ecogel 53PA</td>
<td>VE690PA</td>
<td>LS 451PA 2.429PA</td>
</tr>
<tr>
<td></td>
<td>LS 30PA</td>
<td>4899PA</td>
<td>LS 451PA 2.446PA</td>
</tr>
<tr>
<td></td>
<td>LS 97PA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand lay-up</td>
<td>LS 31PA</td>
<td>VE690PA</td>
<td>LS 451PA 2.429PA</td>
</tr>
<tr>
<td></td>
<td>LS 88PA</td>
<td>4899PA</td>
<td>LS 451PA 2.446PA</td>
</tr>
<tr>
<td>Closed mould</td>
<td>Ecogel 53PA</td>
<td>VE690PA</td>
<td>701PA</td>
</tr>
<tr>
<td></td>
<td>LA 30PA</td>
<td>VE690PA</td>
<td>702PA</td>
</tr>
<tr>
<td></td>
<td>LA 31PA</td>
<td>VE690PA</td>
<td>703PA</td>
</tr>
<tr>
<td></td>
<td>LS 97PA</td>
<td>4899PA</td>
<td>VE676-03PA</td>
</tr>
<tr>
<td></td>
<td>LS 88PA</td>
<td></td>
<td>VE679-03PA</td>
</tr>
</tbody>
</table>

**Crystic® matched performance range overview**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>DESCRIPTION</th>
<th>VISCOSITY (Poise)</th>
<th>GELTIME (mins)*</th>
<th>TENSILE STRENGTH (MPa)*</th>
<th>TENSILE MODULUS (GPa)*</th>
<th>ELONGATION AT BREAK (%)*</th>
<th>APPROVALS</th>
</tr>
</thead>
</table>

**Gelcoats**

- LS 30PA Superior weathering Iso/NPG spray gelcoat
- LS 31PA Superior weathering Iso/NPG brush gelcoat
- LS 97PA An exceptional isophthalic spray gelcoat with excellent u.v. resistance, gloss retention and water resistance
- LS 88PA An exceptional isophthalic brush gelcoat with excellent u.v. resistance, gloss retention and water resistance
- Ecogel 53PA High performance low styrene Iso/NPG spray gelcoat

**Skincoats**

- VE690PA Pre-accelerated modified vinyl ester resin to create an enhanced surface finish
- 4899PA Isophthalic skincoat with excellent durability and blister resistance

**Resins**

- LS 451PA High performance low styrene DCPD modified resin to create an enhanced surface finish
- 2.420PA Orthophthalic resin with low styrene emission, low exotherm and long geltime
- 2.406PA Orthophthalic resin with low styrene emission, low exotherm and rapid wet out
- 2.446PA Orthophthalic resin with low styrene emission, rapid wet out and fast hardening ideal for rapid mould turnaround
- 701PA Closed mould isophthalic resin with low viscosity and controlled exotherm characteristics
- 702PA Closed mould orthophthalic resin with low viscosity and controlled exotherm characteristics
- 703PA Closed mould DCPD resin with low viscosity and controlled exotherm characteristics
- VE676-03 Closed mould non-accelerated and non-thixotropic epoxy bisphenol vinyl ester resin
- VE679-03PA Pre-accelerated, non-thixotropic VE/DCPD resin for vacuum infusion

* A variety of cure systems were used. Results are from a variety of different catalyst systems and cure programs and should be used for indicative comparison only. See individual product datasheets for more information.

**Check out the whole Crystic® product range**

Scott Bader has an extensive gelcoat, resin and pigment paste range, ask your local Scott Bader contact for more details.
Scott Bader is a global company with over 40 years' experience in designing and manufacturing high quality adhesives. Crestomer® products have been successfully used by leading global boatbuilders to improve the performance of their products, to make productivity improvements through time savings in construction and to provide considerable weight savings. The following diagram shows areas where Crestomer® structural adhesives can be used in FRP boatbuilding.

**A record of achievement**

The Crestomer® pedigree was established over 40 years ago. The first commercial application for Crestomer® adhesive was in the manufacture of minehunters. The unique properties of Crestomer® ensured peel and crack resistance was significantly improved. Crestomer® is the only successful material specifically designed to meet this demanding application.

**Challenging mindsets**

Crestomer’s outstanding performance record and unique properties have fundamentally challenged conventional thinking among moulders who have been sceptical of the performance possibilities with adhesives. Freed from the constraints of traditional fabricating techniques, FRP moulders are now capitalising on the design flexibility, time and cost savings that structural adhesives can offer. Crestomer® is now used in a wide range of demanding applications across the marine, transport, building and construction sectors within the FRP industry.

**Crestomer® dispensing equipment**

- Crestomer® Advantage 10, 30 and 60 cartridges can be used with a manual or pneumatic gun. Suitable dispense guns and static mixers are available from Scott Bader
- Crestomer® adhesives can be dispensed directly from pails and drums using a manual or automated dispensing machine/ putty gun
- Scott Bader technical support can provide advice on appropriate dispensing equipment

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**Crestomer® product range overview**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>DESCRIPTION</th>
<th>APPROVALS</th>
<th>APPEARANCE</th>
<th>VISCOSITY TIME (min)</th>
<th>TENSILE TIME (MPa)</th>
<th>TENSILE MODULUS (MPa)</th>
<th>TENSILE ELONGATION (%)</th>
<th>SPECIFIC GRAVITY (g/cc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1150PA</td>
<td>High performance structural adhesive with shorter fixture time</td>
<td>Lloyds, Class NK</td>
<td>Mauve gel</td>
<td>50°</td>
<td>5</td>
<td>22 - 25</td>
<td>1000 - 1500</td>
<td>100 - 120</td>
</tr>
<tr>
<td>1151PA</td>
<td>Adhesive for bulk application Amine accelerated</td>
<td>Lloyds, Class NK</td>
<td>Green/yellow gel</td>
<td>25°</td>
<td>2.5</td>
<td>22 - 25</td>
<td>1000 - 1500</td>
<td>100 - 120</td>
</tr>
<tr>
<td>1152PA</td>
<td>High performance structural adhesive with long open time</td>
<td>Lloyds, RINA, DNV, GL, Class NK</td>
<td>Mauve gel</td>
<td>50°</td>
<td>10</td>
<td>22 - 25</td>
<td>1000 - 1500</td>
<td>100 - 120</td>
</tr>
<tr>
<td>1153PA</td>
<td>High performance structural adhesive</td>
<td>Lloyds, RINA, Class NK</td>
<td>Mauve gel</td>
<td>90°</td>
<td>8.5</td>
<td>22 - 25</td>
<td>1000 - 1500</td>
<td>100 - 120</td>
</tr>
<tr>
<td>1186PA</td>
<td>Multi-purpose structural adhesive</td>
<td>Lloyds</td>
<td>Grey paste</td>
<td>50°</td>
<td>5.5</td>
<td>13 - 16</td>
<td>700 - 900</td>
<td>4 - 7</td>
</tr>
<tr>
<td>1196PA</td>
<td>Low density structural core bonding adhesive</td>
<td>Lloyds, DNV, GL</td>
<td>Pink paste</td>
<td>50°</td>
<td>6.5</td>
<td>19 - 22</td>
<td>1000 - 1500</td>
<td>4 - 7</td>
</tr>
<tr>
<td>Advantage 10</td>
<td>High performance structural adhesive for bonding a wide range of substrates.</td>
<td>Lloyds</td>
<td>White paste</td>
<td>10</td>
<td>1.2</td>
<td>22 - 25</td>
<td>400 - 600</td>
<td>100 - 120</td>
</tr>
<tr>
<td>Advantage 30</td>
<td>Lloyds, RINA, DNV, GL</td>
<td>White paste</td>
<td>30</td>
<td>2.5</td>
<td>22 - 25</td>
<td>400 - 600</td>
<td>100 - 120</td>
<td>1.15</td>
</tr>
<tr>
<td>Advantage 60</td>
<td>Lloyds</td>
<td>White paste</td>
<td>60</td>
<td>3.0</td>
<td>22 - 25</td>
<td>400 - 600</td>
<td>100 - 120</td>
<td>1.15</td>
</tr>
</tbody>
</table>

*2% medium reactivity MEKP at 25°C  **2% Perkadox® BT-50 at 25°C  ***Time taken at 23°C to achieve 1.4MPa strength in lap-shear tests according to BS ISO 4587
**Crestafix® adhesive product range overview**

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>NAME</th>
<th>DESCRIPTION</th>
<th>WORKING TIMES (mins)*</th>
<th>COLOUR CHANGE</th>
<th>TENSILE ELONGATION (%)</th>
<th>LAP SHEAR STRENGTH (MPa)**</th>
<th>SPECIFIC GRAVITY (g/cc)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL PURPOSE</strong></td>
<td>B39W</td>
<td>Pumpable polyester-based bonding paste with gap filling properties</td>
<td>55</td>
<td>None (grey)</td>
<td>1</td>
<td>4</td>
<td>1.05</td>
</tr>
<tr>
<td></td>
<td>90-82PA</td>
<td>General purpose orthophthalic bonding paste</td>
<td>12</td>
<td>Blue to white</td>
<td>2</td>
<td>5</td>
<td>1.35</td>
</tr>
<tr>
<td><strong>HIGH PERFORMANCE</strong></td>
<td>621CC 45</td>
<td>Urethane acrylate/isophthalic polyester bonding paste</td>
<td>25</td>
<td>Blue to grey</td>
<td>3</td>
<td>10</td>
<td>1.25</td>
</tr>
<tr>
<td></td>
<td>621CC 85</td>
<td>Urethane acrylate/isophthalic polyester bonding paste</td>
<td>50</td>
<td>Blue to grey</td>
<td>3</td>
<td>10</td>
<td>1.25</td>
</tr>
<tr>
<td></td>
<td>630PA</td>
<td>Vinyl ester bonding paste</td>
<td>60</td>
<td>Deep purple</td>
<td>3</td>
<td>7</td>
<td>1.10</td>
</tr>
<tr>
<td><strong>FAST CURE</strong></td>
<td>90-78PA</td>
<td>Fast cure orthophthalic bonding paste</td>
<td>8</td>
<td>None (white)</td>
<td>1</td>
<td>5</td>
<td>1.30</td>
</tr>
<tr>
<td><strong>LIGHT WEIGHT</strong></td>
<td>90-84PA</td>
<td>Lightweight orthophthalic bonding paste with low exotherm</td>
<td>30</td>
<td>Blue to cream</td>
<td>6</td>
<td>4</td>
<td>0.60</td>
</tr>
<tr>
<td><strong>FIBRE FILLED</strong></td>
<td>90-80PA</td>
<td>Polyester bonding paste with short fibres</td>
<td>12</td>
<td>Blue to grey</td>
<td>2</td>
<td>4</td>
<td>1.25</td>
</tr>
<tr>
<td><strong>CORE-BOND</strong></td>
<td>B72R</td>
<td>Lightweight, polyester-based core adhesive for foams and balsa</td>
<td>55</td>
<td>Blue to white</td>
<td>2</td>
<td>5</td>
<td>0.70</td>
</tr>
<tr>
<td><strong>FAIRING COMPOUND</strong></td>
<td>F26R</td>
<td>Fast setting polyester-based fairing compound with good sanding properties</td>
<td>3</td>
<td>None (light pink)</td>
<td>1</td>
<td>2</td>
<td>0.70</td>
</tr>
</tbody>
</table>

**Bonding pastes dispensing equipment**
- Pails and drums can be dispensed using an automated 50:1 dispensing machine
- Scott Bader technical support can provide advice on appropriate dispensing equipment and catalyst usage

---

*1-2% medium reactivity MEKP @23°C Refer to TDS for specific catalyst levels
**Values are based on substrate failure
A toughened, two component acrylic adhesive designed for bonding composites, thermoplastics and metals, making it ideal for the marine industry.

Key information:

### Crestabond® Features

<table>
<thead>
<tr>
<th>Crestabond® Features</th>
<th>Customer Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primerless adhesives</td>
<td>Dramatically enhances production efficiency and reduces consumable costs</td>
</tr>
<tr>
<td>Minimal surface preparation</td>
<td>Reduces dust emissions and preparation time</td>
</tr>
<tr>
<td>Excellent fatigue and impact resistance</td>
<td>Confidence in the longevity of the finished product</td>
</tr>
<tr>
<td>Range of working and fixture times</td>
<td>Optimises production cycles to reduce manufacturing costs</td>
</tr>
<tr>
<td>Good gap filling capability</td>
<td>Adhesive can be used in multiple applications</td>
</tr>
<tr>
<td>Bonds dissimilar substrates</td>
<td>Provides flexibility in structural designs</td>
</tr>
</tbody>
</table>

### Crestabond® Dispensing Equipment

- The Crestabond® cartridges can be used with a manual or pneumatic gun. Suitable dispense guns and static mixers are available from Scott Bader.
- Crestabond® adhesives can be dispensed directly from pails and drums using an automated 1:1 or 10:1 dispensing machine.
- Scott Bader technical support can provide advice on appropriate dispensing equipment.

### Crestabond® Pack Sizes

<table>
<thead>
<tr>
<th>Cartridges</th>
<th>M7 and PP (1:1) Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1 (10:1) range</td>
<td>M7 and PP (1:1) Range</td>
</tr>
<tr>
<td>50ml side-by-side</td>
<td>50ml side-by-side</td>
</tr>
<tr>
<td>400ml coxial</td>
<td>400ml side-by-side</td>
</tr>
<tr>
<td>825ml side-by-side</td>
<td>825ml side-by-side</td>
</tr>
<tr>
<td>Bulk</td>
<td>20 Litre / 18kg pails</td>
</tr>
<tr>
<td></td>
<td>200 Litre / 180kg drums</td>
</tr>
</tbody>
</table>

### Crestabond® Adhesive Selection Guide

1. Choose the appropriate Crestabond® adhesive product with optimal working and fixture times that will ensure long-term adhesion and durability.

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Colour</th>
<th>Mix Ratio by Volume</th>
<th>Viscosity (cP)</th>
<th>Working Time (mins)</th>
<th>Fixture Time (mins)*</th>
<th>Tensile Strength (MPa)</th>
<th>Triaxial Modulus (MPa)</th>
<th>Elongation at Break (%)</th>
<th>Gap Fill (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1-02</td>
<td>Universal bonder</td>
<td>Dark grey</td>
<td>10:1</td>
<td>100,000 - 140,000</td>
<td>1 - 2</td>
<td>2 - 3</td>
<td>12 - 16</td>
<td>600 - 1000</td>
<td>80 - 100</td>
<td>1 - 15</td>
</tr>
<tr>
<td>M1-04</td>
<td>Universal bonder</td>
<td>Dark grey</td>
<td>10:1</td>
<td>100,000 - 140,000</td>
<td>3 - 5</td>
<td>8 - 10</td>
<td>16 - 20</td>
<td>600 - 1000</td>
<td>80 - 100</td>
<td>1 - 15</td>
</tr>
<tr>
<td>M1-05</td>
<td>Universal bonder</td>
<td>Dark grey</td>
<td>10:1</td>
<td>100,000 - 140,000</td>
<td>4 - 7</td>
<td>12 - 18</td>
<td>16 - 20</td>
<td>600 - 1000</td>
<td>80 - 100</td>
<td>1 - 15</td>
</tr>
<tr>
<td>M1-10</td>
<td>Universal bonder</td>
<td>Dark grey</td>
<td>10:1</td>
<td>100,000 - 140,000</td>
<td>8 - 12</td>
<td>16 - 23</td>
<td>16 - 20</td>
<td>600 - 1000</td>
<td>80 - 100</td>
<td>1 - 15</td>
</tr>
<tr>
<td>M1-20</td>
<td>Universal bonder</td>
<td>Dark grey</td>
<td>10:1</td>
<td>100,000 - 140,000</td>
<td>16 - 22</td>
<td>25 - 35</td>
<td>16 - 20</td>
<td>600 - 1000</td>
<td>80 - 100</td>
<td>1 - 25</td>
</tr>
<tr>
<td>M1-30</td>
<td>Universal bonder</td>
<td>Dark grey</td>
<td>10:1</td>
<td>200,000 - 240,000</td>
<td>25 - 35</td>
<td>60 - 80</td>
<td>18 - 22</td>
<td>600 - 1000</td>
<td>100 - 130</td>
<td>1 - 50</td>
</tr>
<tr>
<td>M1-60HV</td>
<td>Universal bonder</td>
<td>Green</td>
<td>10:1</td>
<td>340,000 - 380,000</td>
<td>50 - 70</td>
<td>150 - 180</td>
<td>22 - 26</td>
<td>1200 - 1600</td>
<td>50 - 70</td>
<td>1 - 50</td>
</tr>
<tr>
<td>M1-90HV</td>
<td>Universal bonder</td>
<td>Green</td>
<td>10:1</td>
<td>340,000 - 380,000</td>
<td>80 - 100</td>
<td>210 - 240</td>
<td>22 - 26</td>
<td>1200 - 1600</td>
<td>50 - 70</td>
<td>1 - 50</td>
</tr>
<tr>
<td>M7-04</td>
<td>Universal bonder</td>
<td>Off white</td>
<td>1:1</td>
<td>30,000 - 70,000</td>
<td>3 - 5</td>
<td>12 - 15</td>
<td>22 - 25</td>
<td>1200 - 1700</td>
<td>6 - 10</td>
<td>1 - 5</td>
</tr>
<tr>
<td>M7-05</td>
<td>Universal bonder</td>
<td>Off white</td>
<td>1:1</td>
<td>30,000 - 70,000</td>
<td>4 - 7</td>
<td>18 - 22</td>
<td>22 - 25</td>
<td>1200 - 1700</td>
<td>25 - 30</td>
<td>1 - 5</td>
</tr>
<tr>
<td>M7-15</td>
<td>Universal bonder</td>
<td>Off white</td>
<td>1:1</td>
<td>30,000 - 70,000</td>
<td>10 - 20</td>
<td>30 - 45</td>
<td>22 - 25</td>
<td>1200 - 1700</td>
<td>25 - 30</td>
<td>1 - 5</td>
</tr>
<tr>
<td>PP-04</td>
<td>Low surface energy bonder</td>
<td>Off white</td>
<td>1:1</td>
<td>70,000 - 140,000</td>
<td>3 - 5</td>
<td>165 - 180</td>
<td>12 - 17</td>
<td>800 - 1200</td>
<td>2 - 5</td>
<td>0.5 - 5</td>
</tr>
</tbody>
</table>

*Time taken at 23°C to achieve 1.4MPa strength in lap shear tests according to BS ISO 4587
Check the adhesive bonds the required substrates:

- Composites
- Metals
- Plastics
- Galvanised

Arrange a demonstration or trial by contacting your local Scott Bader representative or emailing enquiries@scottbader.com

**CRYSTIC® MOULDGUARD**

Crystic® Mouldguard is a tough temporary coating specially designed for protecting moulds and mouldings. Often, decommissioned moulds are stored outside where they are subjected to standing water, UV light, dirt and frost so they become damaged or scratched. Many hours are usually wasted repairing moulds, cleaning and polishing the gelcoat surface ready for re-use. Most moulders would agree that they rarely achieve the same quality of surface that they had before being decommissioned. Crystic® Mouldguard offers a simple solution.

**Benefits of Mouldguard**

- Protects moulds and mouldings from damage, so eliminating the need for costly repairs
- Significant time and cost savings are made in labour and materials as moulds can be back in production in a fraction of the time
- Easy to apply, simply add 2% MEKP catalyst and brush or spray a single coat onto mould surface, which must have release agent
- Can be used for new moulds – they will need sealing first and release agent applied*
- Brush and spray versions available
- Quick curing
- Easy to remove, simply peel and roll off the Mouldguard from the surface it is protecting
- Prevents air, moisture, dirt, UV light and frost from attacking the mould surface
- Weather resistant in warm or wet conditions for over 12 months
- Tougher than water-based coatings
- Moulds can be covered with Crystic® Mouldguard and left outside for long periods of time

*See separate data sheet and application guide

**TYPICAL PROPERTIES**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>UNIT</th>
<th>LIQUID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
<td>Pink Coloured</td>
</tr>
<tr>
<td>Viscosity @ 25°C</td>
<td></td>
<td>Thixotropic</td>
</tr>
<tr>
<td>Specific gravity @ 25°C</td>
<td></td>
<td>1.12</td>
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<tr>
<td>Volatile content</td>
<td>%</td>
<td>29</td>
</tr>
<tr>
<td>Stability in the dark @ 20°C</td>
<td>Months</td>
<td>3</td>
</tr>
<tr>
<td>Geltime (@ 25°C using 2% medium reactivity MEKP)</td>
<td>Minutes</td>
<td>15</td>
</tr>
</tbody>
</table>
GelTint is our fast, precise colour matching service for top quality gelcoats, highly recommended for use in the marine industry where it is also used in general moulding requirements. GelTint machines are installed all over the world enabling us reach more global customers.

**Benefits of GelTint**
- GelTint products packaging contain sustainable plastic liners providing cheaper, more environmentally friendly waste disposal
- Easier manual handling due to a reduced keg size of 20 L
- Wide range of colours these include RAL, NCS, British Standard and our own custom Scott Bader colours
- No minimum order quantity ideal for customers requiring anything from a single to multiple kegs
- High quality products with Lloyd’s Approval for Marine: GT-600, GT-640 & GT-900
- Excellent batch to batch consistency
- Fast service
- Reduced stock levels

**PRODUCT RANGE**

**GelTint Bases**
GelTint has a selection of bases available to satisfy all markets. The current bases available in GelTint:

- **Isophthalic Gelcoats**
  - GT-600: Isophthalic Gelcoat for Brush Application
  - GT-640: Low Viscosity Isophthalic Gelcoat for Brush Application
  - GT-900: Isophthalic Gelcoat for Spray Application

*Products with Lloyd’s approval for Marine

- **Iso-NPG Gelcoats**
  - GT-1000: Iso-NPG Gelcoat for Spray Application

**Topcoats**
Topcoat versions are available in all bases

**Colourants**
Dispense colourants from the RAL, Bs and NCS standards

**GelTint Colours**
The colourants are formulated with new pigmentation technology. They are:

- Low hazard
- Styrene-free
- Lead-free
- Robust in Colour Durability

**Recommended Markets**
- Marine*
- Land Transport
- Building Applications
- General Moulding Requirements

*We do not recommend the use of coloured gelcoats below the DWL and we do not recommended for repairs.