

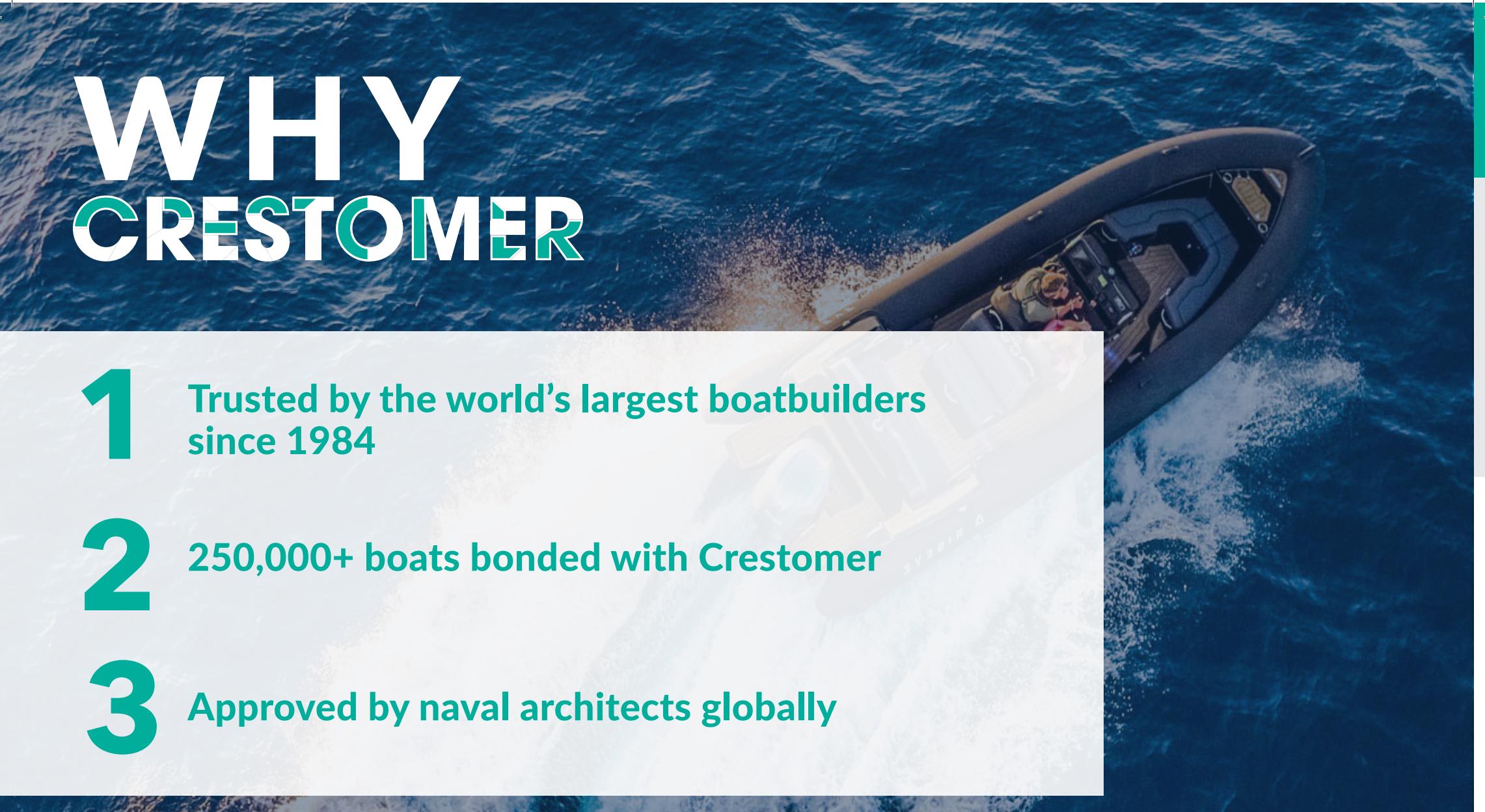
CRESTOMER®

Urethane Acrylate Structural Adhesives



ADHESIVES by
SCOTT BADER

WHY CRESTOMER



- 1 Trusted by the world's largest boatbuilders since 1984
- 2 250,000+ boats bonded with Crestomer
- 3 Approved by naval architects globally



Lloyd's
Register

ClassNK



R
I
A



Scan for our
marine page

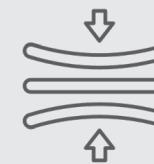
Crestomer Qualities



Low exotherm
during cure
**Low risk of
print through**



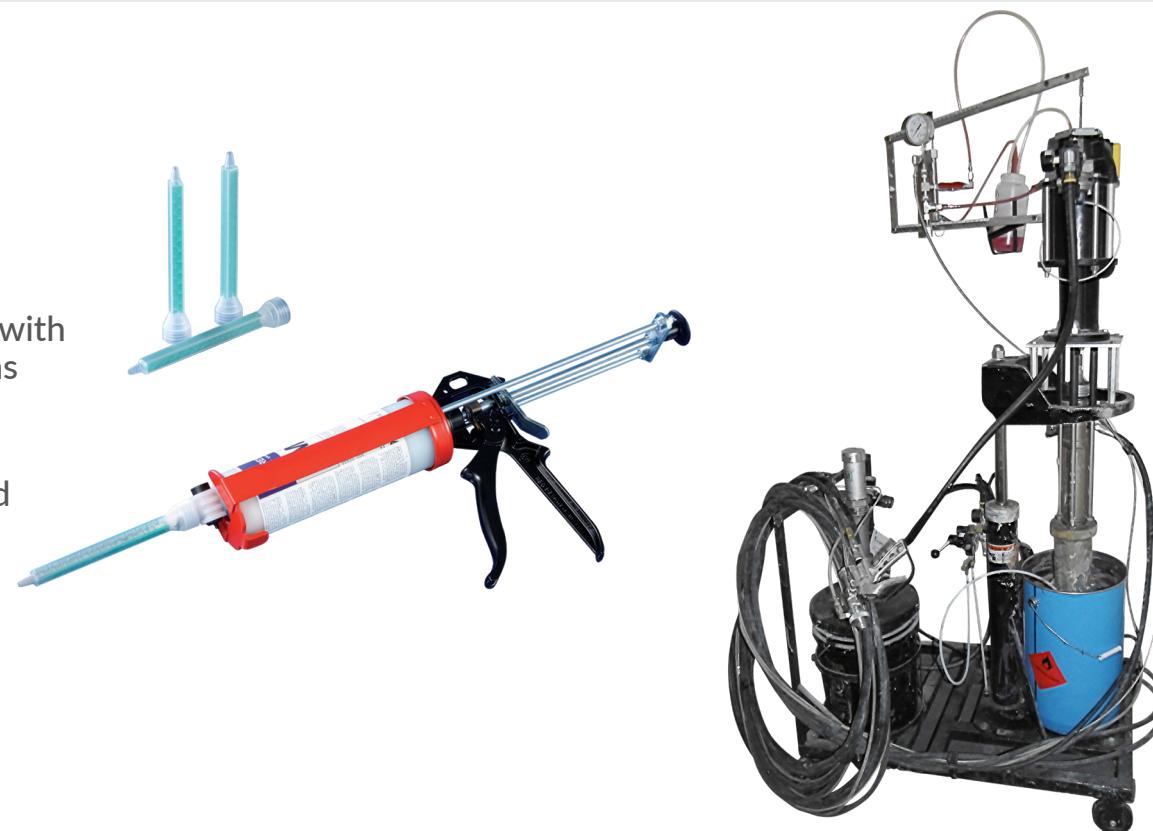
Easy to apply
**Saves you time
and cost**



>100% elongation
**A truly flexible
structural adhesive**

Crestomer® Dispensing Equipment

- ▶ Crestomer® Advantage 30 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.



Product Range Overview

Crestomer® Product	Description	Approvals	Appearance	Working time (mins)	***Fixture time (hours)	Tensile strength (MPa)	Tensile modulus (MPa)	Tensile Elongation (%)	Specific Gravity (g/ml)
1150PA	High performance structural adhesive with shorter fixture time	Lloyds, Class NK	Mauve Gel	*50	5	22 - 25	1000 - 1500	100 - 120	1.05
1151A	Adhesive for bulk application Amine accelerated	Lloyds, DNV.GL, Class NK	Green/ Yellow Gel	**25	2.5	22 - 25	1000 - 1500	100 - 120	1.05
1152PA	High performance structural adhesive	Lloyds, RINA, DNV.GL, Class NK	Mauve Gel	*50	8.5	22 - 25	1000 - 1500	100 - 120	1.05
1153PA	High performance structural adhesive with long open time	Lloyds, RINA, Class NK	Mauve Gel	*90	8.5	22 - 25	1000 - 1500	100 - 120	1.05
1154PA	High performance structural adhesive minimising distortions and impact on bonded substrates	Lloyds	Mauve Gel	*90	8.5	22 - 25	400 - 800	100 - 120	1.05
1186PA	Multi-purpose structural adhesive	Lloyds	Grey Paste	*50	5.5	13 - 16	700 - 900	4 - 7	1.30
1196PA	Low density structural core bonding adhesive	Lloyds, DNV.GL	Pink Paste	*50	6.5	19 - 22	1000 - 1500	4 - 7	0.60
Advantage 30	High performance structural adhesive for bonding a wide range of substrates. Minimal surface preparation required. Pre-packed in cartridges.	Lloyds	White paste	30	2.5	22 - 25	400 - 600	100 - 120	1.15

* Medium reactivity MEKP catalyst

** Medium reactivity dibenzoyl peroxide paste catalyst

*** Time taken at 23°C to achieve 14MPa strength in lap-shire tests according to BS ISO 4587

Pack Size

The Crestomer® range is available in 20 litre kegs and 200 litre drums. Weights vary depending on S.G. Crestomer® Advantage 10, 30 and 60 are packed in 10:1 380ml coaxial cartridges. Manual and pneumatic guns plus static mixers are also on the product range.

Bond Strengths With Different Substrates

The following tables give examples of bond strengths and types of failure mode observed when bonding various substrates with the Crestomer range.

All figures are lap shear strengths (MPa).

Crestomer® 1152PA	
Results achievable with Crestomer® Advantage and Crestomer® 1153PA are similar	

	FRP	Marine Ply	Aluminium*	Stainless Steel*
FRP	10	-	-	-
Marine Ply	-	5	-	-
Aluminium	-	-	15	-
Stainless Steel	-	-	-	12

Crestomer® 1186PA	

	FRP	Marine Ply	Aluminium	Stainless Steel
FRP	10	-	-	-
Marine Ply	-	5	-	-
Aluminium	-	-	10	-
Stainless Steel	-	-	-	8

Crestomer® 1196PA	

	Balsa	PVC Foam (80kg/m3)
FRP	10	6

Fillet joints constructed using Crestomer® 1152PA are stronger and aesthetically superior to FRP laminated joints as well as being quicker to manufacture and giving far lower styrene emission.

Substrate failure

indicates that the adhesive is stronger than the materials being bonded together.

Cohesive failure

is a failure of the bulk adhesive itself and is characterised by a film of adhesive being left on both sides of the failed joint.

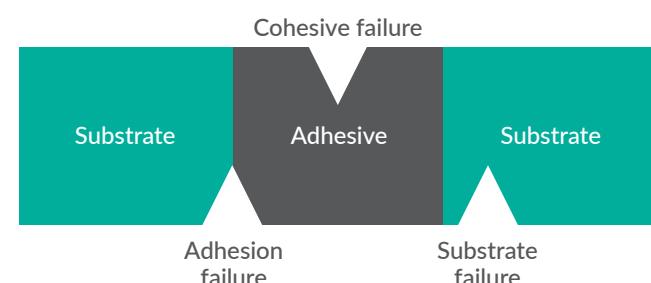
Adhesive failure

occurs in the bond line between the adhesive and substrate and is characterised by the film of adhesive being left on one side of the failed joint.

Substrate failure
Cohesive failure

*Requires surface preparation

Adhesive failure modes



Comparisons With Competitive Materials

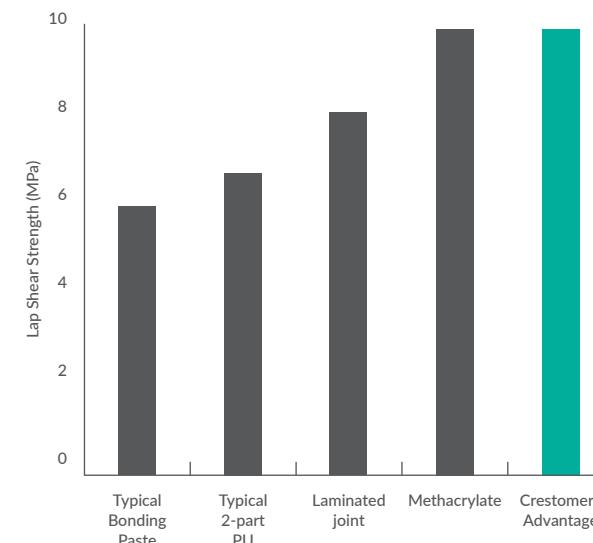
Compared to other adhesives, Crestomers offer the following benefits:

- ▶ Monomer type identical to polyester resins
- ▶ Cured with conventional peroxides
- ▶ Low exotherm during cure
- ▶ Available in a range of working and fixture times
- ▶ Ease of application
- ▶ Cost effective

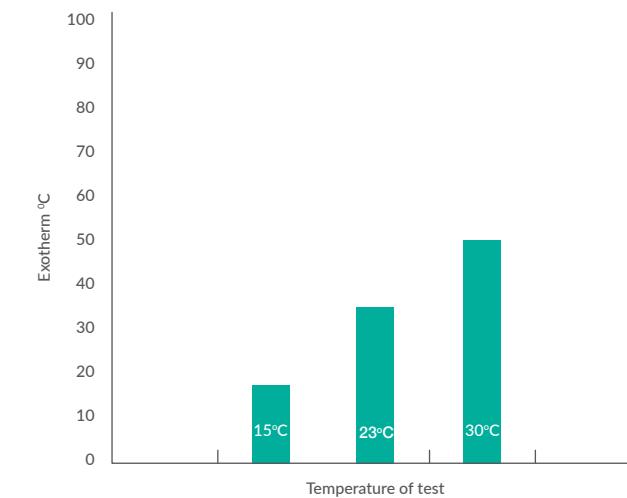
High exotherm in an adhesive can cause the substrate to distort and give poor aesthetic characteristics to the parts being bonded. The chemistry of Crestomer® adhesives ensures that high exotherm temperatures, a characteristic of some other adhesives do not occur. The graph shows the exotherm temperatures of Crestomer® adhesives over a range of test temperatures.



FRP to FRP bond strength



Exotherm of Crestomer® adhesives



Crestomer® In Action

Small fixings

Advantage 30 cartridges



Deck to hull bonding

Crestomer® 1150PA
Crestomer® 1151PA
Crestomer® 1152PA
Crestomer® 1153PA
Crestomer® 1186PA
Crestomer® Advantage 30

Core bonding

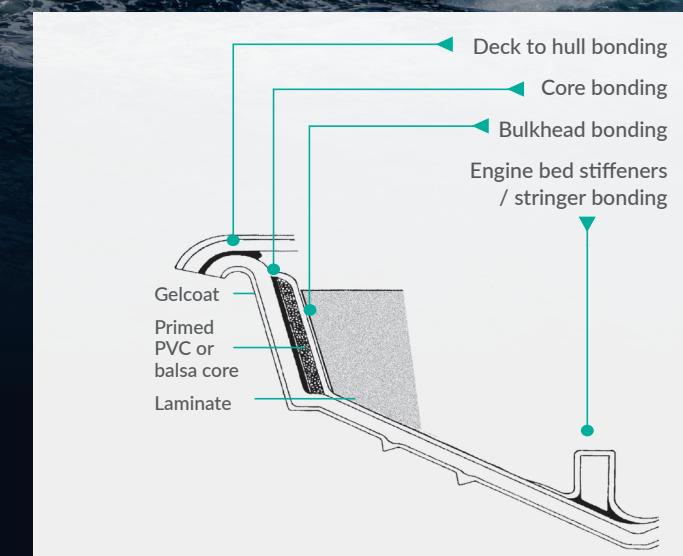
Crestomer® 1196PA

Bulkhead bonding

Crestomer® 1150PA
Crestomer® 1151PA
Crestomer® 1152PA
Crestomer® 1153PA

Engine bed stiffeners / stringer bonding

Crestomer® 1150PA
Crestomer® 1151PA
Crestomer® 1152PA
Crestomer® 1153PA





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We invest in people Gold

ADHESIVES

Crestabond® | Crestomer® | Crestafix®