

CRESTOMER ADVANTAGE 30

Structural Adhesive

Product Overview

Crestomer Advantage 30 is a structural adhesive that bonds a wide range of substrates with minimal surface preparation and lower odour than competitive materials. It has a white color, with a fast geltime of 30 minutes and bonded parts are workable in 2 hours and 20 minutes. Crestomer Advantage 30 is based on Scott Bader's innovative urethane acrylate technology and exhibits exceptional impact strength and toughness. Its excellent adhesion and gap filling capabilities offer great flexibility in design with significant time and cost savings.

Features and Benefits

Urethane acrylate base
Highly thixotropic
Excellent retention of toughness

Excellent adhesion and high elongation at break
No sagging on vertical surfaces
Excellent fatigue and impact resistance

Characteristics Using Advantage 30 Catalyst

Characteristics	Typical Value
Working Time/Geltime ¹	30 Minutes
Fixture Time ²	2:20 Hours
Gap Filling	0.039 – 0.787 in
Flash Point	91.4°F
Color Change (Over Cure)	None

1. Geltime measured with 100g mass of adhesive at 77°F.
2. Time taken at 73.4°F (ambient temperature) to achieve 203Psi strength in lap-shear tests according to BS ISO 4587.

Liquid Properties

Property	Typical Value
Viscosity ³	280,000 – 350,000 cP
Specific Gravity	1.1 – 1.2
Volatile Content	40 – 45%
Mix Ratio ⁴ (by Volume)	10:1
Appearance	White Paste
Stability at 68°F ⁵	6 Months

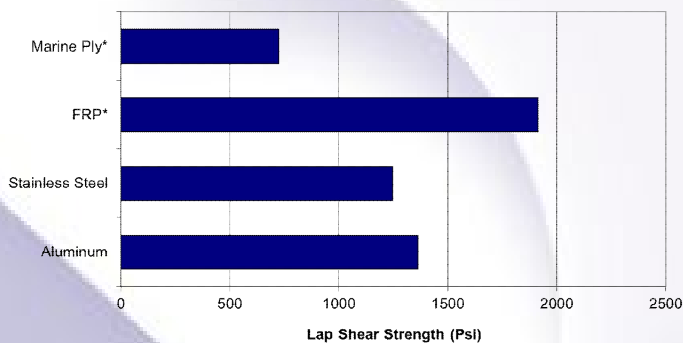
3. Measured using Brookfield Viscometer at 77°F.
4. Mix ratio based on cartridge dispensing, as supplied.
5. Stability defined from date of dispatch when left un-opened in the original containers and stored out of direct sunlight.

Typical Material Properties

Property	Typical Value	Test Method
Hardness	65 Shore D	BS EN ISO 868
Maximum Tensile Strength	2176 Psi	BS EN ISO 527-2
Tensile Modulus	46,412 – 55,114 Psi	BS EN ISO 527-2
Elongation at Break	> 85%	BS EN ISO 527-2
Water Absorption	0.68%	BS EN ISO 62

Bond Joint Strength – Typical Lap Shear Strengths (Psi)

Values are based on substrate failure where marked by *



Material	Surface Preparation	Test Method
Marine Ply	Solvent Degrease	ISO 4587
Teak	Solvent Degrease	ISO 4587
FRP	Removal of Strippable Cloth	ISO 4587
Stainless Steel	Degrease, Abrade, Degrease	ISO 4587
Aluminum	P2 Acid Etch	ISO 4587

Please contact Scott Bader Technical Services for information on other substrates.

Approvals

Crestomer Advantage 30 has RINA, DNV Approval and a Statement of Acceptance from Lloyd's Register of Shipping for use in the construction of craft built under their survey.

Surface Preparation

Crestomer Advantage 30 has excellent adhesion to FRP material provided that the surface has been maintained free of dust and grease. This can be guaranteed by the use of proprietary strippable cloths such as peel ply (without lubricant contaminants). If the laminate surfaces are more than 3 days old, it is recommended that they are lightly abraded and wiped with acetone or styrene on a lint-free, clean cloth prior to bonding.

Application

Crestomer Advantage 30 is supplied ready to use in pre-packed 380ml co-axial cartridges with no hand mixing required. Crestomer Advantage 30 is supplied pre-accelerated and contains Advantage Catalyst within the cartridge. The mixer indicator system imparts a neutral, opaque white color and this blends well in cosmetically sensitive applications. Recommended temperature range for application is between 64.4°F and 77°F.

For industrial/commercial use only. The user must determine the suitability of a selected adhesive for a given substrate and application. Contact your local Scott Bader representative for questions or assistance with the selection of adhesives for your use. This product is intended for use by skilled individuals at their own risk. Recommendations contained herein are based on information we believe to be reliable. The properties and strength values obtained under controlled conditions at the Scott Bader laboratory.

Storage

Crestomer Advantage 30 should be stored internally in its original container. It is recommended that the storage temperature should be between 59°F and 68°F. Cartridges should be opened only immediately prior to use. Products should never be frozen.

Packaging

Crestomer Advantage 30 is supplied in 380ml co-axial cartridges.

Health and Safety

See separate Material Safety Data Sheet.

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All information on this data sheet is based on laboratory testing and is not intended for design purposes. Scott Bader makes no representations or warranties of any kind concerning this data. Due to variance of storage, handling and application of these materials, Scott Bader cannot accept liability for results obtained. The manufacture of materials is the subject of granted patents and patent applications; freedom to operate patented processes is not implied by this publication.

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