

PRESS RELEASE

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Crystic Crestomer® 1196PA Obtains RINA Approval for Composite Yacht Core Bonding

RINA S.p.A has approved Crystic Crestomer 1196PA for use in composite leisure craft deck and hull construction, built under RINA certification. This approval is for use as a structural adhesive to bond cores and skin laminates in sandwich structures.

Laminate test pieces bonded with Crystic Crestomer 1196PA underwent a flatwise tensile test (to ASTM D 1623) and a sandwich shear test (to ASTM C 273). The stringent RINA strength requirements were satisfied, even after the test pieces had undergone two cycles of laboratory ageing under the demanding ASTM D 1183 Type "D" test conditions; each ageing cycle takes a week to complete, during which the bonded test pieces are exposed to extremes of temperature from +71°C to -57°C, different humidity conditions and prolonged periods immersed in salt water. These demanding test conditions result in only the highest performance structural adhesives gaining RINA approval. Giuseppe Dell'Anno, the R & D Applications Engineer at Scott Bader who led the RINA test project commented: *"It was a very tough test programme; gaining RINA approval for 1196PA provides FRP boatbuilders with further assurance of the high quality and guaranteed performance characteristics of Crestomers for marine structural bonding."*

In addition to the RINA approval, Crestomer 1196PA and rest of the Crestomer range has Lloyds approval; most grades also have DNV class 1 approval. The investment by Scott Bader in obtaining RINA approval has been in response to a growing number of requests, particularly from Italian boatbuilders.

In the marine sector, ship classification represents RINA's main activity, classifying ships on the basis of compliance of design and materials used. It is also one of the founding members of IACS (International Association of Classification Societies). Since the mid '90s, as a guarantee of the reliability and value of its certificates and assessments, RINA has acquired a wide range of national, EU and international recognitions from authorised bodies.

Crystic Crestomer 1196PA, specifically designed as a core bonding adhesive, is part of the Crestomer range of structural adhesives developed and manufactured by Scott Bader Ltd. Crestomer structural adhesives have been used for over 20 years by leading manufacturers of fibreglass leisure craft such as: Azimut, Princess Yachts, Sunseeker, Sealine and Fairline, plus many other FRP boat builders in Europe, the USA, South America, China and other parts of Asia.

More information on the full Crestomer adhesive range available from Scott Bader can be found and downloaded from their website www.scottbader.com . Alternatively e mail composites@scottbader.com to request a follow up call from a local sales representative or to be sent further information.



Crystic Crestomer 1196PA bonding PVC cored laminate.

Image shows the top PVC cored laminate structure bonded with Crystic Crestomer 1196PA (Light pinkish brown colour) compared with one without any adhesive in the laminate shown below. Crystic Crestomer 1196PA provides excellent gap filling and structural core bonding, proven in testing to retain better mechanical properties over time.

About Scott Bader

Scott Bader was established in 1921. Today it is a £180 million multinational chemical company, employing 560 people worldwide. It is a common trusteeship company, having no external shareholders, with a strong commitment to support its workforce, society and the environment.

Scott Bader's headquarters is based in the UK where they have purpose-built, state-of-the-art Technical facilities that provide R & D as well as complete evaluation, testing and application support. They have manufacturing facilities in the UK, France, Croatia, The Middle East and South Africa. For further information regarding Scott Bader, please call +44 (0) 1933 663100, visit www.scottbader.com or e-mail info@scottbader.com.