



BETAMATE™ 1840C

Structural Adhesives

BETAMATE™ 1840C is a one-component, heat-curing, epoxy-based adhesive especially developed for the body shop. It is capable of bonding oily galvanized, cold-rolled steel, and aluminum.

BETAMATE™ 1840C has excellent process and storage stability, and excellent adhesion to automotive steels (including coated steels and pretreated aluminum with good tolerance to oily and dry lubes).

BETAMATE™ 1840C helps to increase the stiffness and the crash stability of the entire car body with high durability of the adhesive and adhesive bond and corrosion protection due to its sealing capability. It is compatible with other mechanical and thermal joining techniques, compatible with the e-coat process, wash-off resistance and curable up to six weeks open time in the uncured bond. Typical applications include bonding of the vehicle body structure and closure hem flange applications.

Product information

Colour	Red -	
Density	1240 kg/m ³	ISO 845

Uncured properties

Viscosity, Bohlin, 23°C	≥46 Pa.s
-------------------------	----------

Cured properties

Stress at break	31 MPa	DIN 53504
Strain at break	11 %	DIN 53504
Lap shear strength, 3 days	≥29.6 MPa	DIN EN 1465

Typical mechanical properties

Peel strength, T-Peel	9.4 N/mm	ISO 11339
-----------------------	----------	-----------

Characteristics

Compatibility	Metals
---------------	--------

The information set forth herein is furnished free of charge, is based on technical data that DuPont believes to be reliable, and represents typical values that fall within the normal range of properties. This information relates only to the specific material designated and may not be valid for such material used in combination with other materials or in other processes. It is intended for use by persons having technical skill, at their own discretion and risk. This information should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards and comply with applicable law. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents.

CAUTION: Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract or other acknowledgement that is consistent with the DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative.

DuPont's sole warranty is that our products will meet our standard sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DUPONT SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR NON-INFRINGEMENT. DUPONT DISCLAIMS LIABILITY FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.