BATTERY SEALANT E-25

DESCRIPTION
BATTERY SEALANT E-25 is a two component, clear, liquid epoxy for use in assembling cases and covers in one piece automotive battery production. It provides a good bond to flame treated or chromic acid etched polypropylene as well as hard rubber compounds. It is mixed in equal portions by volume and applied using conventional production dispensing equipment.

MIXING AND APPLICATION
BATTERY SEALANT E-25 has a mix ratio of 1 part Component A to 1 part Component B, by volume or 1 part Component A to 1.2 parts Component B, by weight.

PACKAGING AND COVERAGE
Unit consisting of (Black only):
One - 1 Gal. (8 lb. [3.6 kg.]) can Comp. A
One - 1 Gal. (9 lb. [4.1 kg.]) can Comp. B (Black)
Volume coverage approx. 444 cubic inches

Unit consisting of:
One - 5 Gal. (40 lb. [18.1 kg.]) pail Comp. A
One - 5 Gal. (48 lb. [21.8 kg.]) pail Comp. B
Volume coverage approx. 2,300 cubic inches

Unit consisting of:
One - 55 Gal. (400 lb. [181.4 kg.]) drum Comp. A
One - 55 Gal. (480 lb. [217.7 kg.]) drum Comp. B
Volume coverage approx. 23,000 cubic inches

CLEANING OF EQUIPMENT
Steel wool, soap and warm water will remove BATTERY SEALANT E-25 from equipment if cleaning is done immediately after use. Solvents, such as methyl ethyl ketone, toluene or xylene, have to be used after the material has begun to harden. Hardened material has to be removed by mechanical means. Dispose of residue and wastes in accordance with the directions in the Material Safety Data Sheets and government regulations.

STORAGE LIFE
One year in dry storage in unopened original containers and under temperature controlled conditions. The ideal storage temperature is 68°F (20°C). DO NOT store in direct sunlight. Always store in a well ventilated area.

PRECAUTIONS
The materials described herein are for Industrial Use Only. They contain materials that present handling and potential health hazards. Consult Material Safety Data Sheets and the container labels for complete precautionary information before using.

TECHNICAL SERVICE
ATLAS maintains a staff of Technical Service Representatives who are available to assist you with the use of ATLAS products. In the event of any difficulties with the use of ATLAS materials, the job should be stopped immediately and ATLAS' Technical Service Department consulted for assistance.

WARRANTY
ATLAS warrants that its products will be free from defects in workmanship and materials under normal use for a period of one (1) year from the date of shipment by ATLAS (provided the products are installed before the expiration of the shelf life). THERE ARE NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR THE PURPOSE FOR THIS PRODUCT WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. ATLAS' LIABILITY FOR ALLEGED BREACH OF THIS WARRANTY SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT (BUT NOT INCLUDING REMOVAL OF THE DEFECTIVE PRODUCT OR INSTALLATION OF REPLACEMENT PRODUCTS). ATLAS SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES DURING THE WARRANTY PERIOD OR THEREAFTER. ATLAS WARRANTY IS VOIDED IF PAYMENT FOR PRODUCT IS NOT RECEIVED IN FULL.

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>COMPONENT A</th>
<th>COMPONENT B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity @ 77°F (25°C), Brookfield RVT (Spindle # / Speed)</td>
<td>4,000-6,000 cps. (5 / 4 RPM)</td>
<td>10,000-16,000 cps. (5 / 4 RPM)</td>
</tr>
<tr>
<td>Weight / Gallon</td>
<td>8.0 lb.</td>
<td>9.7 lb.</td>
</tr>
<tr>
<td>Color</td>
<td>Amber</td>
<td>Clear or Black</td>
</tr>
</tbody>
</table>

MIXED COMPONENT PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>COMPONENT A</th>
<th>COMPONENT B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gel Time, 100 g. Specimen 77°F (25°C)</td>
<td>Approx. 15 min.</td>
<td>Approx. 12 min.</td>
</tr>
<tr>
<td>Gel Time, 100 g. Specimen 80°F (27°C)</td>
<td>Approx. 12 min.</td>
<td>Approx. 3 min.</td>
</tr>
<tr>
<td>Gel Time, 100 g. Specimen 100°F (38°C)</td>
<td>5% maximum</td>
<td></td>
</tr>
<tr>
<td>Acid Absorption, 7 Days in 40% H2SO4 @ 5% maximum 150°F (66°C)--Specimen Cured for 24 hrs. @ R.T. + 2-1/2 hrs. @ 150°F (66°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.06</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Clear-Amber, Black</td>
<td></td>
</tr>
</tbody>
</table>
Note: Atlas makes it a practice to continuously update and enhance our Adhesive and Sealant products. This may result in slight discrepancies between our printed Data Sheets and the current version. For the most recent version of any Data Sheet, please visit our Web site at www.atlasmin.com