

# Technical Datasheet

## Bostik, Inc.



### PLIOBOND™ 45 Adhesive

Description	<p>PLIOBOND 45 adhesive is a general-purpose, thermosetting adhesive that can be used to bond virtually all porous and non-porous substrates. When cured, PLIOBOND 45 adhesive provides tough, chip-resistant bonds that remain flexible over a wide temperature range. Substrates bonded with PLIOBOND 45 adhesive offer excellent resistance to mechanical shock and oxidization. This adhesive provides outstanding dielectric properties and has low water absorption. PLIOBOND 45 adhesive comes ready to use; no conditioner, accelerator, or catalyst is required. PLIOBOND 45 adhesive can be applied by spraying, roll coating, knife coating, or brushing.</p>
Suggested Uses	<ul style="list-style-type: none"><li>• PLIOBOND 45 adhesive can be used as a sealer, primer, water repellent or coating for metal, wood, plastic, plastic film, ceramic, bone, ivory, glass, rubber, paper, leather, plaster, drywall, insulation, concrete, brick and stone.</li><li>• Assembling electrical appliances and equipment</li><li>• Doping electric motor armature coils</li><li>• Anchoring non-skid material to floors</li><li>• Waterproofing awnings, tarps, convertible tops, and outdoor furniture</li><li>• Protecting above-water surfaces on watercraft</li></ul>
Alternate Products	<p>PLIOBOND 25 and PLIOBOND 35 are lower solids and viscosity VOC-compliant adhesives.</p>

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Typical Liquid  
Properties at 77°F  
(25°C)

Base	Synthetic Polymer
Color	Tan
Solids by Weight, %	42.0 ± 2.5
Solvent Formulation	Ketone
Viscosity, Brookfield, cps, Spindle No. 6 @ 10 rpm	57,500 ± 17,500
Specific Gravity	0.936
Pounds per gallon @ 77°F (25°C)	7.80
Flash point (Seta Flash)	<0°F
VOC g/L (by formulation)	<250 g/L (VOC-Compliant for regulated uses with limits of 250 g/L)
Coverage	450 – 470 sq ft/gal/dry mil
Application Temperature	40°F to 100°F (4°C to 38°C)
Service Temperature	ASTM D-816-10 psi at 500°F (260°C) for 1 hour

Typical Values: Based on material tested in our laboratories but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

#### Handling and Safety

PLIOBOND 45 adhesive contains ingredients that could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn. All five-gallon pails and larger metal containers should be grounded and/or bonded when material is transferred. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use a welding or cutting torch on or near drum (even empty) because product (even residue) can ignite explosively. Bostik maintains Safety Data Sheets on all of its products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers. Our Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Bostik products in your facilities.

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### PLIOBOND™ 45 Adhesive

**Storage and Shelf Life** When PLIOBOND 45 adhesive is stored indoors, out of direct sunlight, and in the original, unopened container between 60°F and 80°F (16°C and 27°C), the shelf life is six months. Always rotate stock.

**DOT Label Requirements** Extremely Flammable Liquid UN 1133

**Notice** All information presented herein is believed to be accurate and reliable, and is solely for the user's consideration, investigation and verification. The information is not to be taken as an express or implied representation or warranty for which Bostik, Inc. assumes legal responsibility. Any warranties, including warranties of merchantability, fitness for use or non-infringement of intellectual property rights of third parties, are herewith expressly excluded.

Since the user's product formulations, specific use applications and conditions of use are beyond the control of Bostik. Bostik makes no warranty or representation regarding the results which may be obtained by the user. It shall be the sole responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application.

Bostik requests that the user reads, understands and complies with the information contained herein and the current Safety Data Sheet.