Technical Datasheet

Ashland Performance Materials

PLIOBOND™
Adhesives and Sealants

PLIOBOND™ 20 General Purpose Adhesive

Description

PLIOBOND 20 adhesive is a general-purpose thermosetting adhesive that can be used to bond virtually all porous and nonporous substrates. When cured, PLIOBOND 20 adhesive provides tough, chip resistant bonds that remain flexible over a wide temperature range. Substrates bonded with PLIOBOND 20 adhesive offer excellent resistance to mechanical shock and oxidization. This adhesive provides outstanding dielectric properties and has low water absorption. PLIOBOND 20 adhesive comes ready to use; no conditioner, accelerator, or catalyst is required.

Suggested Uses

PLIOBOND 20 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. Other applications include:

* Assembling electrical appliances and equipment.
* Doping electric motor armature coils.
* Anchoring nonskid material to floors.
* Waterproofing awnings, tarps, convertible tops, and outdoor furniture.
* Protecting above-water surfaces on watercraft.

Alternate Products

PLIOBOND 30 and PLIOBOND 40 adhesives have higher solids and viscosity. PLIOBOND 1000 is a low-odor version.

Typical Liquid Properties at 77ºF

Base	Synthetic Polymer
Color	Tan
Solids, by Weight, %	21 ± 2
Solvent Formulation	Ketone
Viscosity, Brookfield, cps, Spindle No. 2 @ 20 rpm	800 ± 400
Specific Gravity	0.868
Pounds per Gallon @ 25ºC (77ºF)	7.23
Flash point, ºF (Seta Flash)	20
Coverage	215-230 sq ft/gal/dry mil
Application Temperature, ºF	40-100
Service Temperature, ºF	ASTM-D-816-10 psi at 500ºF 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.

Responsible Care*

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Method of Application	PLIOBOND 20 adhesive can be applied by spraying, roll coating, knife coating, or brushing.
Handling and Safety	PLIOBOND 20 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. Ashland maintains Material Safety Data Sheets on all of its products. Material Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers. Our Material Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Ashland products in your facilities.
Storage and Shelf Life	When PLIOBOND 20 adhesive is stored indoors, out of direct sunlight, and in the original, unopened container between 60 ºF and 80 ºF, the shelf life is six months. Always rotate stock.
DOT Label Requirements	Flammable Liquid
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 Ashland assumes legal responsibility. Any warranties, including warranties of merchantability 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 Ashland, Ashland makes no warranty or representation regarding the results which may be obtained by the user. It shall be the responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application. Ashland requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.

Responsible Care*

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With good chemistry great things happen.™