

# Pliobond® Special Purpose Contact Adhesives

## Traditional and VOC Compliant Formulations

Pliobond provides permanent, flexible bonding and will not get brittle with age. The product resists most acids, gasoline, oil, grease and water.

Traditional formulations employ an MEK solvent and the VOC compliant versions use a blended solvent.

Pliobond 20, 25, 30, and 35 are all purpose, thermosetting contact adhesives with solid contents of pigment reinforced synthetic rubber and synthetic plastic resin. The 20 and 25 versions are most frequently used and contain 20 percent

solids while the 30 and 35 products contain 30 percent solids and form a heavier film with controlled penetration. The latter are most often used on more porous surfaces. The 25, 35 and 45 versions are VOC compliant formulas.

Pliobond 45 consists of 40 percent solids and is available on special orders.

Pliobond HT-30 has the same qualities as Pliobond 30 but it resists higher temperatures while providing permanent flexible bonding. However, it must be heat cured to 300 degrees F.

## Proven Professionally—Everyday



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## GENERAL INFORMATION

Many shops and plants with variable production and short runs require a versatile adhesive. For these and for "spot-use" applications, PLIOBOND adhesives simplify warehousing and inventory. They produce strong serviceable joints with most materials. The cement is supplied ready to use and requires no conditioning agents, accelerators, or catalysts.

A single method, called wet bond-

ing, can be used for joining virtually all materials with PLIOBOND.

For wet bond: coat both surfaces, allow to dry to a tack free state, recoat one surface then assemble the parts when tacky. Test before use to ensure compatibility with both adherents.

An initial set takes place in PLIOBOND adhesive joints as soon as most of the solvent has evaporated.

The strength of this initial set is usually sufficient to maintain the assembly, and with some adherents, will exceed the strength of the material. Bond strength increases as evaporation of the solvent progresses, reaching a maximum when all solvent has been removed.

In addition to the adhesive applications, PLIOBOND is also used as a primer, coater, and sealer.

**HANDLING:** PLIOBOND adhesives contain ingredients which could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn.

For important health, safety and handling information,

consult the Material Safety Data Sheet for each individual adhesive before use.

**SHELF LIFE:** Six months in closed containers under ambient conditions (rotate stock). D.O.T. label required: flammable liquid. Stir before use.

Physical properties of PLIOBOND VOC Compliant special purpose contact adhesives			
Table 1	PLIOBOND 25	PLIOBOND 35	PLIOBOND 45
Base Polymer	Nitrile Rubber		
Base Resin	Thermosetting Phenolic		
Total Solids, %	19-23	28-32	37-42
Viscosity, Cps	400-1200	3,000-10,000	40,000-75,000
Specific Gravity	0.87	0.89	0.99
Pounds/Gallon	7.2	7.4	7.7
Color	Tan	Tan	Tan
Solvent(S)	Acetone/Blend	Acetone/Blend	Acetone/Blend
Flash Point, °F Seta	20	20	20

### VOC Compliant Formulation

<b>PLIOBOND 45</b>		<b>PLIOBOND 35 LV</b>	
PC-445	Gallon Can	PBC-35-LV	½-Pint Brush-top Can
PC-545	5-Gallon Pail	PC-235-LV	Pint Can
PC-5045	50-Gallon Drum	PC-335-LV	Quart Can
<b>PLIOBOND 25 LV</b>		PC-435-LV	Gallon Can
P-612-LV	3-oz. Skin-Pack Brush-top Bottle	PC-535-LV	5-Gallon Pail
PBC-25-LV	½-Pint Brush-top Can	PC-5035-LV	50-Gallon Drum
PC-225-LV	Pint Can		
PC-325-LV	Quart Can		
PC-425-LV	Gallon Can		
PC-525-LV	5-Gallon Pail		
PC-5025-LV	50-Gallon		

**Distributed By:**

Physical properties of PLIOBOND Traditional formulation special purpose contact adhesives			
Table 1	PLIOBOND 20	PLIOBOND 30	PLIOBOND HT-30
Base Polymer	Nitrile Rubber		
Base Resin	Thermosetting Phenolic		
Total Solids, %	19-23	28-32	28-32
Viscosity, Cps	400-1200	3,000-10,000	3,000-10,000
Specific Gravity	0.87	0.89	0.89
Pounds/Gallon	7.2	7.4	7.4
Color	Tan	Tan	Tan
Solvent(S)	MEK	MEK	MEK/Alcohol
Flash Point, °F Seta	20	20	21

### Traditional Formulation

Consumer Packages	Industrial Packages
<b>PLIOBOND 20</b>	<b>PLIOBOND 30</b>
P-141 1 oz. Tube Blister	P-3530 1 oz. tube Ind. Pack
P-612 3 oz. Brush Top Bottle	PBC-30 ½ pint brush top can
PBC-20 ½ pint Brush Top Can	PC-230 Pint Can
<b>Industrial Packages</b>	PC-330 Quart Can
<b>PLIOBOND 20</b>	PC-430 Gallon Can
P351 1 oz. tube Ind. Pack	PC-530 5-Gallon Pail
PBC-20 ½ pint brush top can	PC-5030 50-Gallon Drum
PC-220 Pint Can	<b>PLIOBOND HT-30</b>
PC-320 Quart Can	PC-HT230 Pint Can
PC-420 Gallon Can	PC-HT330 Quart Can
PC-520 5-Gallon Pail	PHT 30-4 Gallon Can
PC-5020 50-Gallon Drum	PHT30-5 5-Gallon Pail

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**THE RUSCOE COMPANY**  
Adhesives & Sealants

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