

PEMCO P5100

Polyurethane Adhesive

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Product Overview: PEMCO P5100, manufactured by Alpha Systems, is a one-part, high performance structural adhesive that exhibits superb adhesion to wood, metal, glass, and most other common construction substrates. As a foaming polyurethane product, PEMCO 5100 exhibits unmatched gap-filling properties not found in other adhesives.

Product Uses: PEMCO P5100 is traditionally used in the manufactured housing industry. It was used for the evaluation of sheathing materials on a standard wood frame as described in ASTM E 72-80, Section 14 Racking Load. A shear design, per the Manufactured Home Construction and Safety Standards, of 327.8 PLF can be obtained from a one-sided shear wall constructed with PEMCO P5100. An evaluation of adhesives for structural use in the manufactured housing industry per California CA 25-4 shows that PEMCO P5100 passed all tests as specified in the California CA 25-4 standard.

Technical Information:

Raw Material Base	Polyurethane	MDI Release (VOC)	0.000000000457 lbs/gal
Open Time	20 minutes	Application Temp. Range	40° – 115°F
Set-Up Time	45 minutes	Color	Brown
Specific Gravity	1.1– 1.15	Manufactured State	Totes, Tubes, Pails, Drums
Solids	100%	Shelf Life	12 Months

Application Information: The utilization of the Alpha polyurethane system allows homebuilders to quickly apply two 1/16" diameter beads of PEMCO P5100 polyurethane adhesive to the required framework. During the "open time" (while the moisture in the wood is causing the polyurethane adhesive to foam), 15 to 20 minutes are available to position the required drywall panels or floor decking before fastening as required. The fastened panels can be handled immediately.

Safety Instructions: No special requirements are needed. Consult the product SDS for detailed safety information.

Contact Us: For more information regarding this product and others, please contact us at:

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