

LORD® 7421 Urethane Adhesive

Description

LORD® 7421 adhesive is a single-component, moisture-cure urethane adhesive offering quality adhesion performance and non-conductive properties. It successfully bonds Hytrel®, chlorinated polyethylene (CPE), thermoplastic polyurethane (TPU), Nylon 11 and other thermoplastics to fiber reinforcements, such as polyester and Kevlar®, during construction of high-pressure hose.

LORD 7421 adhesive adheres reinforcement yarns to the extruded core, as well as adhering the extruded jacket to the reinforcement yarns. This single-component adhesive provides good hydrolytic stability and has an increased working life.

Features and Benefits

Identifiable Appearance – easy to see on light colored substrates.

Durable – provides high elongation, modulus and tensile strength.

Convenient – requires no mixing; provides long working time with minimum waste; requires no ovens or other heat source for curing.

Environmentally Resistant – resists sunlight, weathering, humidity and salt spray.

Chemically Resistant – solvent resistant when cured. Painting and most cleaning processes do not affect bond strength.

Application

Surface Preparation – Surfaces should be free of grease, dirt, mold release and other contaminants.

Applying – Apply LORD 7421 adhesive by dip/wipe or brush methods. A wet film thickness of 3-5 mil (76-127 micron) is recommended.

Shelf Life/Storage

Shelf life is six months from date of shipment when stored in clean, dry environment at 70-80°F (21-27°C) in original, unopened container.

After opening, protect adhesive from excessive exposure to moisture by using dry nitrogen as an inert cover each time material is removed. Do not return dispensed material to its original container. The viscosity of this product will increase over time.

Hytrel and Kevlar are trademarks of E. I. du Pont de Nemours and Company.

Typical Properties*

Appearance	Green-gray Liquid
Viscosity, cP @ 77°F (25°C) Brookfield HAT Spindle 2, 20 rpm	550-1550
Density	
lb/gal	9.75
(kg/m ³)	(1168)
Solids Content, %	
by Weight	70
by Volume	71.8
Flash Point (Seta), °F (°C)	>200 (>93)
Solvent	Methylene Chloride

*Data is typical and not to be used for specification purposes.

Authorized Distributor



LORD TECHNICAL DATA

Cautionary Information

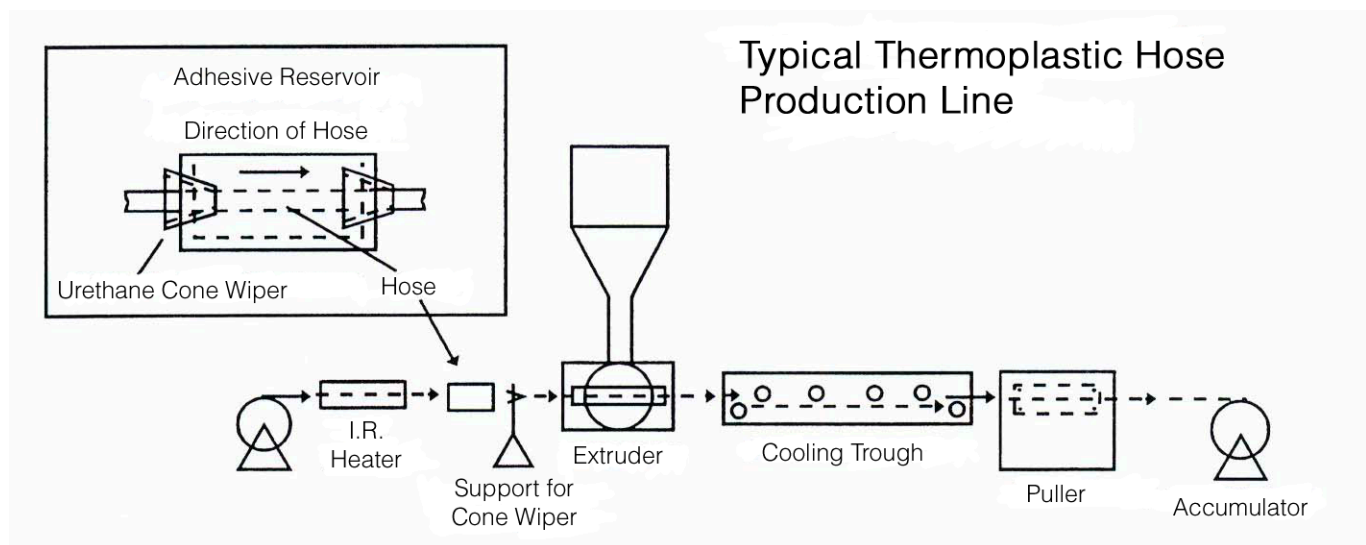
Before using this or any LORD product, refer to the Safety Data Sheet (SDS) and label for safe use and handling instructions.

For industrial/commercial use only. Must be applied by trained personnel only. Not to be used in household applications. Not for consumer use.

Typical Cured Properties* and Bond Performance (ASTM D882-A3A, modified)

Tensile Strength at Break, psi (MPa)	4000 (27.6)
Elongation, %	360
Young's Modulus, psi (MPa)	18,000 (124.1)
Tear Strength, pli (N/mm)	575 (100.7)
T-Peel (ASTM 1876-72), pli (N/mm)	
Hytrel 5556	55-65 (9.6-11.4)
Polyester Fabric	20-30 (3.5-5.3)

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Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Support Center.

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