

LORD® 459X Adhesion Enhancer/Surface Modifier

Description

LORD® 459X adhesion enhancer/surface modifier is designed for promoting adhesion to thermoplastic elastomers (TPE), thermoplastic polyolefins (TPO) and EPDM. LORD 459X primer is in xylene solvent, diluted for direct application.

LORD 459X adhesion enhancer/surface modifier can be used in conjunction with LORD acrylic adhesives, urethane adhesives and epoxy structural adhesives, as well as with a variety of double-sided tapes.

Features and Benefits

Versatile – enhances adhesion to difficult-to-bond elastomers, increasing the adhesion of coatings, double-sided tape and adhesives.

Easy to Apply – low viscosity allows for easy application; no dilution necessary.

Convenient – requires very low dry film weights to enhance adhesion to coatings and double-sided tapes.

Application

Surface Preparation – Wipe surface to be primed with a suitable solvent, or wash with detergent and water, then rinse.

Mixing – No mixing is required before or during use.

Applying – Apply LORD 459X adhesion enhancer/surface modifier by brush, dip or spray method. For optimum adhesion, the dry film thickness should be approximately 0.1 mil (2.5 micron).

Drying/Curing – Allow adhesion enhancer/surface modifier to air-dry for 30-60 minutes at room temperature with good air flow, or use an oven at 200-250°F (93-121°C) for 5-10 minutes. A heat cycle generally improves adhesion.

Cleanup – Use a dry cloth wipe to remove wet adhesion enhancer/surface modifier. Remove dried adhesion enhancer/surface modifier with xylene or a ketone-type solvent.

Typical Properties*

Appearance	Amber Liquid
Viscosity, cP @ 77°F (25°C) Brookfield LVT Spindle 1, 60 rpm	~10
Density	
lb/gal	7.15-7.35
(kg/m ³)	(857-881)
Solids Content by Weight, %	2.7-4.1
Flash Point (Seta), °F (°C)	81 (27)
Solvents	Xylene

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

LORD TECHNICAL DATA

Shelf Life/Storage

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

Cautionary Information

Before using this or any LORD product, refer to the Material Safety Data Sheet (MSDS) 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.

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.

Information provided herein is based upon tests believed to be reliable. In as much as LORD Corporation has no control over the manner in which others may use this information, it does not guarantee the results to be obtained. In addition, LORD Corporation does not guarantee the performance of the product or the results obtained from the use of the product or this information where the product has been repackaged by any third party, including but not limited to any product end-user. Nor does the company make any express or implied warranty of merchantability or fitness for a particular purpose concerning the effects or results of such use.

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