

CHEMLOK® 402X

Technical Data Sheet

Chemlok® 402X is a solvent-based, one-coat surface treatment for affixing textiles to a wide variety of unvulcanized elastomers. Chemlok 402X is an all-xylene version of Chemlok 402. It is composed of a mixture of polymers, organic compounds and fillers dissolved or dispersed in an organic solvent system.

Chemlok 402X is used in the production of hoses, belts, diaphragms and other textile-reinforced rubber products. It can also be used as an additive to tie cements, as a replacement for isocyanates that are widely used in rubber/textile bonding.

Features and Benefits

Versatile: affixes a variety of elastomers to a wide variety of textiles, including polyester, polyamide, cotton, rayon, and polyaramid.

Non-chlorinated Solvent System: suitable for solvent incineration, saving cost of recovery equipment.

Excellent Performance: works well on RFL-treated fabric or cord. Fabric or cord treated with Chemlok 402X can be used in process once Chemlok 402X film is tack-free.

Convenient: requires only a single coat for most applications, reducing labor, solvent usage, inventory and shipping costs.

Elastomers

- Natural Rubber (NR)
- Polychloroprene (CR)
- Polyisoprene (IR)
- Nitrile (NBR)
- Styrene-butadiene (SBR)
- Butyl (IIR)
- Polybutadiene (BR)

Application

Mixing: Thoroughly stir Chemlok 402X before use, and agitate sufficiently during use to keep dispersed solids uniformly suspended. If dilution is needed, use xylene or toluene. Note proper dilution for the various application methods is best achieved by experience. Give careful attention to agitation since dilution will accelerate settling.

Applying: Apply Chemlok 402X by dip, brush or spray methods. For most applications, 6-10% dry weight pickup is necessary. To optimize both performance and flexibility, apply Chemlok 402X to the fabric at a level just high enough to meet performance specifications.

For affixing specialty elastomers such as EPDM and epichlorohydrin, Chemlok 402X should be topcoated with another specialty covercoat designed for that specific elastomer. Using this method helps ensure strong cohesive strength of the system.

Drying/Curing: Allow Chemlok 402X to dry until the coated fabric is tack-free and visual examination of the film has shown that all solvent has evaporated. This will take approximately 30-60 minutes at room temperature. Drying time can be shortened by oven drying for 10-15 minutes at 65°C (150°F). Higher temperatures may be used to reduce drying times, but care must be taken to ensure that excessive heat does not cause adverse effects.

Typical Properties*

Appearance	Black Liquid
Viscosity, cps @ 25°C Brookfield LVT Spindle 2, 30 rpm	200 - 600
Density kg/m ³ (lb/gal)	900 - 960 (7.51 - 8.01)
Solids Content by Weight, %	18.5 - 21.5
Flash Point (Seta), °C (°F)	25 (77)
Solvents	Xylene

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

Shelf Life/Storage

Shelf life is six months from date of manufacture when stored by the recipient in a well ventilated area at 21-27°C (70-80°F) in original, unopened container. Do not store container outside.

Chemlok 402X is moisture sensitive. Minimize exposure to moisture by preparing only what is needed for several hours of use.

Cautionary Information

Before using this or any Parker 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.

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Values stated in this document 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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CHEMLOK® 402X

技术说明书

Chemlok® 402X是一种溶剂型单涂，设计用于帮助和促进纺织品附着于各种未固化的弹性体。Chemlok 402X是纯二甲苯版的Chemlok 402。本品是聚合物、有机化合物和填料在有机溶剂体系内溶解或分散形成的混合物。

Chemlok 402X应用于软管、皮带、隔膜和其他纤维增强橡胶产品的生产。本品还可作为添加剂，主要是用来取代在橡胶/纺织品粘接中广泛使用的异氰酸酯。

特征和优点

用途广泛: 可帮助和促进各种弹性体附着至各式各样的纺织品，包括聚酯纤维、聚酰胺、棉布、人造丝和芳纶。

非氯化溶剂体系: 适于溶剂的焚化，为设备的复原节省成本。

性能出众: 非常适于应用在RFL处理后的织物或丝线上。对于使用Chemlok 402X处理的织物或丝线，在溶剂挥发后即可立即操作。

使用方便: 大多数情况下只须涂敷一层，可减少工作量和溶剂使用量并降低仓储和货运成本。

弹性体

- 天然橡胶 (NR)
- 聚异戊二烯 (IR)
- 丁苯橡胶 (SBR)
- 顺丁橡胶 (BR)
- 氯丁橡胶 (CR)
- 丁腈橡胶 (NBR)
- 丁基橡胶 (IIR)

使用方法

混合: 使用本品前，应彻底搅拌均匀。使用时，充分搅拌以保持悬浮固体均匀分散。如果需要稀释，可使用二甲苯或甲苯。注意：针对不同涂敷方式的稀释最好通过经验获得。稀释会加速沉降，搅拌时须特别注意。

涂敷: Chemlok 402X可采用浸涂、刷涂或喷涂。大多数情况下，干膜附着量有必要控制在6-10%。为了实现性能强度和韧性的最优化，Chemlok 402X用于织物的使用量应足够大，以满足技术要求。

用于三元乙丙橡胶 (EPDM) 和环氧氯丙烷等特殊弹性体时，Chemlok 402X的表面还应加涂一层针对具体弹性体的专用面涂。采用这种方式，一般可确保结构的内聚强度。

干燥/固化: Chemlok 402X涂敷后自然风干至表面不发粘，目测检查涂膜确保溶剂已全部挥发。室温下，达到此要求大约需要30至60分钟。在65°C 150°F 的温度下以烘箱烘干10至15分钟，可缩短干燥时间。提高干燥温度可缩短干燥时间，但必须注意防止因过热而导致本品在高温下发生反应。

保质期/储藏要求

自生产之日起，保质期为六个月，但是收货人必须使用出厂未开封的原装容器，在 21-27°C (70-80°F) 的温度下保存于通风良好区域。不得存放在户外。

Chemlok 402X对于湿度敏感。每次配料时只配几个小时的用量，以最大限度减少本品与水分的接触。

典型特性*

外观	黑色液体
粘度, cps @ 25°C Brookfield粘度计 2号转子, 转速30 rpm	200 - 600
密度 kg/m³ (lb/gal)	900 - 960 (7.51 - 8.01)
固体含量, %	18.5 - 21.5
闪点 (Seta), °C (°F)	25 (77)
溶剂	二甲苯

*典型数据不可作为产品标准之用。

警示信息

使用本品或派克洛德 (Parker Lord) 任何产品之前, 请参阅安全数据表 (SDS) 和产品标签上关于安全使用和处理的说明。

仅可用于工业/商业用途。要求本品在有组织排放下使用。使用本品者事先必须接受相关培训。不得用于家庭用途。不得用于消费品。

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