

Chemlok® 2000

Technical Data Sheet

Chemlok® 2000 is a general-purpose surface treatment that works on a wide variety of vulcanized and unvulcanized rubber compounds to metals and other rigid substrates. It is composed of a mixture of polymers, organic compounds, and mineral fillers dissolved or dispersed in an organic solvent system.

Features and Benefits:

Versatile – can be used as a primer under a wide variety of Chemlok covercoats such as the Chemlok 230 series or Chemlok 6000 series.

Convenient – suitable for existing production lines; can be applied by using brush, dip, spray or roller coat methods.

Durable – provides high tear and cohesive strength, as well as excellent environmental resistance when used in combination with Chemlok covercoats.

Identifiable Appearance – provides a brilliant blue color for easy identification when used over phosphatized substrates.

Application:

Surface Preparation – Thoroughly clean metal surfaces prior to application. Remove protective oils, cutting oils and greases by solvent degreasing or alkaline cleaning. Remove rust, scale or oxide coatings by suitable chemical or mechanical cleaning methods.

Apply Chemlok 2000 to stainless steel, aluminum, brass, or other nonferrous substrates within one-half hour after cleaning. For ferrous substrates such as steel, a longer layover can be tolerated if no rust is formed.

For further detailed information on surface preparation of specific substrates, refer to Chemlok application guide.

Mixing – Thoroughly stir Chemlok 2000 before use, and agitate sufficiently during use to keep dispersed solids uniformly suspended. If dilution is needed, use ketone-type solvents such as MEK (methyl ethyl ketone) and MIBK. 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 2000 by brush, dip, roller coat, spray or any method that gives a uniform coating and avoids excessive runs or tears.

Normally the dry film thickness of Chemlok 2000 should be 5.1-10.2 micron (0.2-0.4 mil). When using over grit blasted substrates or when using it in conjunction with Chemlok 6000 series covercoats, apply a dry film thickness at the high end of the range. For all other applications (i.e., swaging or smooth substrates), apply at the low end of the film thickness range.

Drying/Curing – Allow Chemlok 2000 to thoroughly dry before applying the covercoat. This will take approximately 30-45 minutes at room temperature. It is best to use temperatures of 65-93°C (150-200°F) and abundant circulating air; however, forced air drying is possible at temperatures up to 149°C (300°F) for short periods of time. Maximum air flow at minimum temperatures will give the best results.

Cleanup – Clean spills with a rag as soon as possible using MEK.

Shelf Life/Storage:

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

Typical Properties*

Appearance	Blue Liquid
Viscosity, cps @ 25°C (77°F) Brookfield LVT Spindle 2, 30 rpm	20 - 200
Density kg/m ³ (lb/gal)	916.7 - 970.6 (7.65 - 8.10)
Solids Content by Weight, %	22 - 26
Flash Point (Seta), °C (°F)	19 (66)
Solvents	Methyl Isobutyl Ketone (MIBK), Xylene

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



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Parker LORD
Engineered Materials Group

111 LORD Drive
Cary, NC 27511-7923
USA

www.lord.com

Chemlok® 2000

技术说明书

Chemlok® 2000是一种通用的表面处理剂,可以帮助和促进各种硫化和未硫化的橡胶化合物附着至金属和其它刚性基材上。本品是聚合物、有机化合物和矿物填料在有机溶剂体系内溶解或分散而形成的混合物。

特征和优点:

用途广泛 – 可作为Chemlok 230系列或Chemlok 6000系列等各种Chemlok面涂的底涂使用。

使用方便 – 适用于现有的生产线;可采用刷涂、浸涂、喷涂或辊涂的涂敷工艺。

耐久性强 – 与Chemlok面涂配合使用,抗撕裂强度和内聚强度高,耐环境性出色。

可辨识的外观 – 当涂敷于磷化基材上,鲜艳的蓝色更易于辨识。

使用方法:

表面处理 – 在涂敷前,应彻底清洗金属表面。使用溶剂型除油剂或碱性清洗剂去除金属表面的保护油、切削油和油脂。通过适当的化学或机械清理方式,去除锈、腐蚀层或氧化层。

清洗后半小时内,将Chemlok 2000涂敷至不锈钢、铝、黄铜或其它有色金属基材上。钢等含铁基材如未生锈,可停留较长时间。

对于特定基材的表面处理的详细信息请参阅Chemlok/Chemosil应用指南。

混合 – 使用本品前,应彻底搅拌均匀。使用时,充分搅拌以保持分散固体均匀悬浮。如果需要稀释,使用MEK(丁酮)和MIBK等酮类溶剂。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 2000可采用刷涂、浸涂、辊涂、喷涂或任何确保涂层均匀,避免涂膜流淌或撕裂的涂敷工艺。

一般情况下,Chemlok 2000的干膜厚度应为5.1-10.2微米(0.2-0.4密尔)。如果用于经过喷砂处理的基材或将其与Chemlok 6000系列面涂配合使用,则其干膜厚度应控制在前述厚度范围的上限。对于所有其他应用场合(例如经过缩紧或表面平滑的基材),其膜厚应控制在前述厚度范围的下限。

干燥/固化 – 涂敷面涂之前,涂有Chemlok 2000的工件应进行彻底干燥。室温下,达到此要求大约需要30至45分钟。干燥温度最好控制在65-93°C (150-200°F),提供充足的循环空气;但是,如果使用强制热空气干燥,最高温度不超过149°C (300°F),以缩短干燥时间。满足最低温度要求的情况下加大热风流动干燥效果最好。

清理 – 使用MEK和抹布清理溅溢的液体。

保质期/储藏要求:

保质期为自发货日起六个月,收货人必须使用未开封的原装容器,且保存在21-27°C (70-80°F)环境下。

典型特性*

外观	蓝色液体
粘度, cps @ 25°C (77°F) Brookfield粘度计 2号转子, 转速30 rpm	20 - 200
密度 kg/m³ (lb/gal)	916.7 - 970.6 (7.65 - 8.10)
固体含量, %	22 - 26
闪点 (Seta), °C (°F)	19 (66)
溶剂	甲基异丁基酮 (MIBK), 二甲苯

*典型数据不可作为产品标准之用。



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Parker LORD
工程材料集团

111 LORD Drive
Cary, NC 27511-7923
USA

www.lord.com

派克洛德中国

中国(上海)自由贸易试验区日樱北路333号
邮编: 200131
邮件: LORDChinaMarketing@parker.com
电话: +86 21-3133 0800
传真: +86 21-2042 2361