# **PRODUCT DATA**

### PRODUCT DESCRIPTION

**VINYLOK-D** is a Fast Reactive viscous solution of Vinyl Phenolic resin in Methanol & Chlorinated Hydro Carbon. This product is supplied for application as moulded Brake pas adhesive used in, Locomotive & Automobiles industries.

### PHYSICAL PROPERTIES

Specific Gravity	:	1.0
Flash Point	:	23 deg. C
Non Volatiles	:	37 +/- 2 %
Viscosity at 25 deg. C	:	5,000 - 10,000 CPS
Cloud Point	:	< 10 deg C

## **APPLICATION OF PRODUCT**

Method VINYLOK-D is capable of application by spray, brush or roller and should be applied only to the steel back material. At 25-35 deg C Overight (or) Drying At 70 deg C 20-30 Minutes • Curing (0.35-1.0 MPa Pressure) 180 deg C 1 3 Minutes 165 deg C 5 Minutes 2 150 deg C 2 7 Minutes **PROPERTIES OF CURED PRODUCT** 

Superior weather, water, chemical and heat resistance (-20 deg C + 300 deg C). The following properties were determined using Test Methods indicated below. They are provided solely as Technical information and do not constitute a product specification.

# VINYLOK - D BRAKE SHOE & PAD ADHESIVE Edn. 03/08 dt. 12 Aug.08

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Substrate	m.s cast Frict	brake sho ed / Zn allo ion Materia	e / All grade by etc. I - Green Sta	
Pretreatment	degr	ease.	grease / sho	
Preparation	: Brus	h Apply / Ro	nromatize co oller coat / Sp Plate / shoe	oray adhesive
Drying	: Over minu	-	mbient or 7	0 deg. C 20
Curing : Integral Hot Mounting : 150 deg. C for 5-7 mins. at 350-650 KSC Pressure. Pack & Back : 650 KSC Pressure / 220 - 240 deg. C bake. Clamp & Cure : 11 KSM pressure / 180 - 220 deg.C / 30 - 60 minutes				
Test				/ 200 deg.C / SAEJ 840).
Typical failure Stress (KSC) fo at Temp		25C	200C	300C
Asbestos Type		70	50	65
Non-Asbestos	Organic	60	45	55
Non-Asbestos	Metallic	65	50	60
All tests resulted in shear within the friction material				

All tests resulted in shear within the friction material (Type : 7 as per SAEJ 840).

# SHELF LIFE : 6 months @ temp. 30-40deg.C

#### **Packaging**

VINYLOK-D is a available in 5, 10 and 20 liter containers.

# INDIAN FRICTION MATERIAL ENGG. CO.

F-186/S-2, Dilshad Colony, Delhi - 110095, INDIA Tel. : (011) 2235 7363 / 2235 1984, Fax : (011) 2235 1984 e-mail : fricmart@bol.net.in URL : www.fricmart.com

<b>PRODUCT DATA</b>	EMULSOL MOLD RELEASE AGENT		
PRODUCT DESCRIPTION	airless) and hold spray tip 10" to 18" from the mole surface.		
<b>EMULSOL</b> is a water-base, concentrated blend of organic and synthetic polymeric waxes designed for high temperature compression mold release application.	<ol> <li>Apply two even coats of EMULSOL over the entire too surface. Allow the water to evaporate before placing molding parts.</li> </ol>		
<b>EMULSOL</b> can be easily diluted with demineralized water to	4. Reapply an event coat over the entire tool after every shot to insure subsequent release ease.		
a solid level that best suits the molding requirements, usually between 10-15 times dilution with demineralized water.	5. The tool/mold surface should be Hard Chrome Plated fo best results.		
<b>EMULSOL</b> is a conventional mold release and must be applied before every molding cycle.	TYPICAL PROPERTIES		
<b>EMULSOL</b> has shown excellent results when used at molding	Appearance : Off-white liquid		
temperatures between 140 deg C and 205 deg C. As a conventional release, <b>EMULSOL</b> must be applied only by	Density, kg/l : 0.96 - 1.0		
spray for best results.	% Solids : 30 +/- 2		
RECOMMENDED USE	Storage stability: 6 months (unopened container)		
Phenolic Resin Molding : All types of rigid/rubberised molding	Store at 25-35 deg. C temperature; keep away from freezing Keep containers tightly sealed to prevent evaporation and/o contamination.		
Compression Molding : Compounded wood fiber,	HANDLING		
Asbestos, Aramid, Glass, Rockwool and Rigid/flexible			
plastic molding.	<b>EMULSOL</b> is non-hazardous when used as intended.		
APPLICATION OF PRODUCT	PACKAGING		
<ol> <li>Thoroughly clean the mold with a suitable solvent or detergent to remove any previous release agent or other buildup. Wipe dry with a clean cloth or towel. Then wipe with a chlorinated solvent or naphtha and let air dry.</li> </ol>	<b>EMULSOL</b> is available in 50, 100 and 200 liter containers.		
2. Use conventional spray equipment (air-assisted or			

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