



Material Safety Data Sheet

Complying to U.S Spec and MSHA Requirements

Statement Of Hazardous Nature

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IDENTIFICATION

Product Name : Eli-Flex Rubber Repair
Manufacturer's Product Code : FR909/N60 Paste
Regulatory Information : Resin - Any hazardous components, both singularly and combined, are below the concentrations at which they need to be declared or classified.
Hardener : CAS No. 9016-87-9
Dangerous Goods Class and Subsidiary Risk : Class 6
HAZARDS IDENTIFICATION : Not regarded as a health or environmental hazard under current legislation

Content of Harmful or Flammable Substances

Resin : Harmful Products – Phosphorous 0-1%,
Chlorene 1-5%
Hardener : Flammable Products – Isocyanate (MDI)
10-30%
Transportation : NOT CLASSIFIED AS HAZARDOUS
FOR TRANSPORTATION
Use : Indoor and outdoor rubber surface repair
Physical Description/Properties
Appearance : Resin - Black, Hardener - Brown
Boiling/Melting Point : See “Precautions for use”
Heat Resistance: 194 °F
Flashpoint : Resin - > 302 °F ,
Hardener - > 392 °F
Ignition Temperature : Resin - > 752 °F,
Hardener - > 752 °F
Specific Gravity : @ 77 °F Mixed Resin 1,04-1,05 g/cm³
Solubility in Water : Non Soluble
Other Properties : See Technical Data Sheet



Ingredients : Resin - Polyether/Polyester Polyols
Inorganic Fillers Additives/Catalysts
: Hardener - Aromatic Di-Isocyanate (MDI)

HEALTH HAZARD INFORMATION

Health Effects/First Aid

If Swallowed : Do not induce vomiting. Contact a doctor immediately.

Contact with eyes : Flush eyes with large amounts of water for at least 15 minutes

Contact with skin : Wash skin with soap and water

If inhaled : If overcome by vapours, remove to fresh air

Effects of over-exposure : Resin - No harmful effects under normal handling and operating procedures
: Hardener - Prolonged/repeated exposure may cause irritation of the skin, eyes, nose, throat and result in headaches. Do not expose hardener to heat or open flame.

PRECAUTIONS FOR USE

Personal Protection : Resin - Respiratory protection not required at ambient temperatures
:
Hardener - Fire fighters should wear self-contained breathing apparatus
: Resin/Hardener - Ensure good ventilation
: Protective gloves recommended
: Eye Protection recommended
: Other protective equipment not needed

Flammability : Resin - Flash point > 302°F,
Ignition Point >752°F
: Hardener - Flash Point > 392°F,
Ignition Point >752°F

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SAFE HANDLING INFORMATION

Storage and transport	: Store/transport under dry and cool conditions in tightly sealed containers/packs.
Spills and disposals	: Keep away from open flame : Cover spillage with sand, clean with cotton waste, use industrial detergents and flush with water.
Fire/explosion hazard	: The product is of low flammability. It may burn. Auto-ignition is highly unlikely. In a fire situation, Carbon Monoxides, Carbon Dioxides, Nitrous Oxides and various Hydrocarbon gases are released.



TECHNICAL INFORMATION

Product : ELI-FLEX FR909/N60 PASTE – CONVEYOR BELT AND RUBBER REPAIR RESIN is a flame retardant, two component, ambient temperature curing compound with excellent flexibility, good tear strength and abrasion resistance.

Color	: Resin - Black : Hardener - Brown
Mixing Ratio	: By volume - 100 pts Resin : - 21 pts Hardener
NOTE	: Mix resin and hardener for 3 minutes. : Increases in temperature will shorten the working time and setting time. : Decreases in temperature will extend the working time and setting time
Specific Gravity/ 77°F	: Mixed Resin 1,04 - 1,05 g/cm ³
Viscosity/ 77°F	: Mixed Resin - Thixotropic Paste
Coverage	: 1mm thick application (0,004 inches) i.e 3 sq. ft / lb : 150g twin pack will cover approx. 1 sq.ft : 300g twin pack will cover approx. 2 sq.ft
Practical Working Time	: (Pot Life) 150g mix / 77°F = 20-30 min
Geltime / 77°F	: 150g / 5.3 oz mixed = 15- 20 minutes
Setting time / 77°F	: 40 - 45 minutes per 5mm / 1/16 th depth
Setting time / 45°F	: 2 - 3 hours

TYPICAL CURED PROPERTIES

Hardness after 24 hours	: Shore A 55-63
After 48 hours	: Shore A60-65
After 7 days	: Shore A 63-68
Hardness at 176°F	: Shore A 80 when left to cool.
Tensile Strength	: (DIN 53504) 435 – 580 psi
Elongation at break	: (DIN 53504) 180 - 200%
Impact resistance	: (DIN 53453) 10KJ/m ²
Tear propagation resistance	: 575 psi
Abrasion Resistance	: (DIN 53516) 350 – 450 mm ³
Heat Resistance	: 176 – 195 °F
Adhesion	: To cleaned, roughened rubber & PVC – excellent. To metal, concrete, plastics - good/satisfactory



Typical Properties : Once mixed, Eli-Flex FR909/N60 Paste produces an ambient temperature curing high grade rubber with a shore A hardness of 60-65. The product shows excellent flexibility combined with good tear strength and abrasion resistance. Eli-Flex can be used for indoor and outdoor applications, both above and below ground.

TYPICAL APPLICATIONS AND USES

Eli-Flex FR909/N60 paste has been formulated for applications on vertical or horizontal surfaces for “ on-the-spot ” conveyor belt and rubber repair. e.g. holes, tears, splits, cracks, sealing joints, preventing spillage, and covering metallic fasteners.

HANDLING PROPERTIES

Eli-Flex FR909/N60 paste has a very low irritation potential at room temperature. However, good industrial hygiene must be observed. Details can be found under *Precautions For Use*.

STORAGE STABILITY

Eli-Flex FR909/N60 Hardener is moisture sensitive. Material must be stored under dry and cool conditions in tightly sealed containers. Prolonged exposure to temperatures in excess of 105°F must be avoided. Shelf life : 24 months.

NOTICE

The technical specification and/or our technical advice whether verbal, in writing or by trials is given in good faith and based on our test results obtained, but without warranty. It does not release the user from the obligation of testing the products supplied by us or any third party as to the suitability of the intended application. The application, use and processing of the products are beyond our control and Elite Chemical Industries (Pty) Ltd legal obligation in respect of any sale of it's products shall be determined by the terms of it's conditions of sale. PATENT APPLICATION NO. 86/4152.