

Material Safety Data Sheet

Complying to U.S. Spec and MSHA Requirements

Date: January 13, 2005

Statement of Hazardous Nature

Company Details:

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Identification

Product Name: EZ-Patch™ Elastomer Repair Kit

Our Part No.: 36220-150 for one packet
36220-15040 for box of 40
36220-300 for one packet
36220-30025 for box of 25

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%, Chlorine 1-5%
Hardener: Flammable Products – Isocyanate (MDI) 10-30%

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/cm ³
Solubility in Water:	Not 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

<i>If swallowed:</i>	Do not induce vomiting. Consult a doctor immediately.
<i>Contact with eyes:</i>	Flush eyes with large amounts of water for at least 15 minutes.
<i>Contact with skin:</i>	Wash skin with soap and water
<i>If inhaled:</i>	If overcome by vapors, remove to fresh air
<i>Effects of over-exposure:</i>	Resin – No harmful effects under normal Handling and operating procedures. Hardener – Prolonged/repeated exposure may Cause irritation of the skin, eyes, nose, and throat and result in headaches. Do not expose hardener to heat or open flame.

PRECAUTIONS FOR USE

<i>Personal protection:</i>	Resin – Respiratory protection not required at ambient temperatures. Hardener – Fire fighters should wear self-contained breathing apparatus. Resin/Hardener – Insure good ventilation. Protective gloves recommended, Eye protection recommended. Other protective equipment not needed
<i>Flammability:</i>	Resin – Flash point>302°F, Ignition point 752°F Hardener – Flash Point>392°F, Ignition point >752°F

SAFE HANDLING INFORMATION

<i>Storage and transport:</i>	Store/transport under dry and cool conditions in tightly sealed containers/packs. Keep away from open flame.
<i>Spills and disposals:</i>	Cover spillage with sand, clean with cotton waste, thereafter use industrial detergents and flush with water.
<i>Fire/explosion hazard:</i>	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: EZ-Patch™ ELASTOMER REPAIR KIT is a flame retardant, two components, ambient temperature curing compound with excellent flexibility; good tear strength and abrasion resistance.

<i>Color:</i>	Resin – Black Hardener – Brown
<i>Mixing Ratio:</i>	By weight – 100 pts. resin: 24 pts hardener By volume – 100 pts resin: 21 pts hardener
<i>Note:</i>	<i>Mix Resin and Hardener for 3 minutes</i> <i>Increases in temperature will shorten the working time and setting time.</i> <i>Decreases in temperature will extend the Working time and setting time.</i>
<i>Specific Gravity/77°F:</i>	Mixed resin 1.04 – 1.05 g/cm ³
<i>Viscosity/77°F:</i>	Mixed resin – Thixotropic Paste
<i>Coverage:</i>	1mm thick application (0,004 inches) i.e. 3 sq. ft/lb 150g twinpack will cover approximately 1 sq. ft. 300g twinpack will cover approximately 2 sq. ft.

<i>Practical Working Time:</i>	(Pot Life) 150g mix/77°F = 5 – 8 minutes
<i>Geltime/77°:</i>	150g/ mix = 15 – 20 minutes
<i>Setting time/77°F:</i>	40 – 45 minutes
<i>Setting time/45°F:</i>	2 – 3 hours

TYPICAL CURED PROPERTIES:

<i>Hardness after 24 hours:</i>	Shore A 60-63
<i>7 days:</i>	Shore A 65-70
<i>Hardness at 176°F:</i>	Shore A 80 when left to cool.
<i>Tensile Strength:</i>	(DIN 53504) 435 – 580 psi
<i>Elongation at break:</i>	(DIN 53504) 180 – 200%
<i>Impact resistance:</i>	(DIN 53453) 10KJ/m ²
<i>Tear propagation resistance:</i>	575 psi
<i>Abrasion resistance:</i>	(DIN 53516) 350- 450 mm ³
<i>Heat resistance:</i>	176 - 195°F
<i>Adhesion:</i>	To cleaned and roughened rubber & PVC – excellent. To metal, concrete and plastics – good/satisfactory.
<i>Typical properties:</i>	Once mixed, EZ-Patch™ Elastomer 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. EZ-Patch™ Elastomer can be used for indoor and outdoor applications, both above and below ground.

TYPICAL APPLICATIONS AND USES

EZ-Patch™ Elastomer 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

EZ-Patch™ Elastomer 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

EZ-Patch™ Elastomer 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 its products shall be determined by the terms of its conditions of sale. PATENT APPLICATION No. 86/4152,