

## **Eli-Bond FR700** **Rubber-To-Rubber and Rubber-To-Steel Adhesive**

### **Application Instructions**

#### **1) Surface Preparation :**

All contact surfaces should be clean, dry and free of all contaminants. Rubber surfaces should be buffed with wire brushes or low-speed power grinders.



The surface should then be cleaned off with a suitable solvent e.g Trichloroethylene or Methyl Ketone ( MEK ). The bonding layer must be removed using a suitable de-greasing solvent.

2) Eli-Bond FR700 is supplied in a pre-measured kit. The mix ratio is :  
100 parts Resin to 6 parts Hardener ( BY WEIGHT )



- 3) Add the Hardener to the resin and stir for at least 5 minutes.
- 4) Apply a thin coat of mixed FR700 to both surfaces by brush and allow to dry ( minimum 20 minutes to max. 1 hour ).



- 5) Apply a second coat to both surfaces and allow to dry until slightly tacky ( approx. 10 minutes @ 25°C ). In the event of over-drying, apply a third coat.



- 6) Position both surfaces and secure over the entire bonded area.



- 7) Coverage is approximately 4m<sup>2</sup> per kg.
- 8) Eli-Bond FR700 cures within 6 hours, temperature dependant.



Applications : Cold splicing of conveyor belts, Drum lagging, Rubber Lining, bonding chevrons, cleats and sidewalls onto belts

### **CAUTION :**

Avoid breathing vapour; ensure adequate ventilation.  
 Avoid contact with skin and eyes; wash thoroughly after use.  
 Store under cool and dry conditions.  
 Eli-Bond FR 700 Part B (Hardener) contains Isocyanate and should not come into contact with water or moisture from the air.  
 Refer to Material Safety Data Sheet (MSDS) on Eli-Bond FR 700 for full safety information concerning handling and disposal.

### **CONTACT DETAIL**

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## **TECHNICAL INFORMATION**

**Product :** ELI-Bond FR700/S is an ambient temperature curing, solvent-based, two component polychloroprene rubber adhesive.

<b>Colour</b>	<b>:Resin - Dark Grey :Hardener - Brown</b>
<b>Mixing Ratio</b>	<b>:By Weight - 100 parts resin to 6 parts hardener</b>
<b>Specific Gravity/ 25°C</b>	<b>: Mixed system 1,2 – 1,25 g/cm<sup>3</sup></b>
<b>Viscosity/ 25°C</b>	<b>: Mixed system - Brookfield No.6 spindle 50rpm @ 21°C : 1400- 1900 mPa.s</b>
<b>Practical Working Time (Pot Life)</b>	<b>: 25°C : 2 - 3 hours</b>
<b>Tackfree time once applied by brush</b>	<b>: @ 25°C, 6 – 8 minutes</b>
<b>Drying time @25°C</b>	<b>: Approx. 25 minutes</b>
<b>Application</b>	<b>: By brush</b>
<b>Coverage</b>	<b>: 200g – 250g per m<sup>2</sup></b>
<b>Storage Stability</b>	<b>: &gt; 18 months if kept in sealed containers.</b>

**NOTE :** The resin component may experience slight crystallisation when stored at low temperatures ( 5 °C or lower ). Warm resin to remove any crystallisation .

<b>Flammability</b>	<b>: Non- Flammable</b>
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### **Typical Cured Properties**

<b>Bond Strength</b>	<b>: Cure 5 days @ 25°C : 10 – 11 N/mm<sup>2</sup> Natural Rubber to Natural Rubber ( ShoreA60 )</b>
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### **Typical Applications**

**Bonding cured rubber to rubber**

**Bonding cured & chemically cured rubber to primed metal or primed concrete**

**Cold splicing of fabric ply belts**

**Cold splicing / repair of steel cable / cord conveyor belts**

**Bonding rubber / ceramic-rubber drum lagging**

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## **TECHNICAL INFORMATION**

### **Product**

ELI-BOND FR961E1 is an ambient temperature curing, non-flowing, two component epoxy tile adhesive.

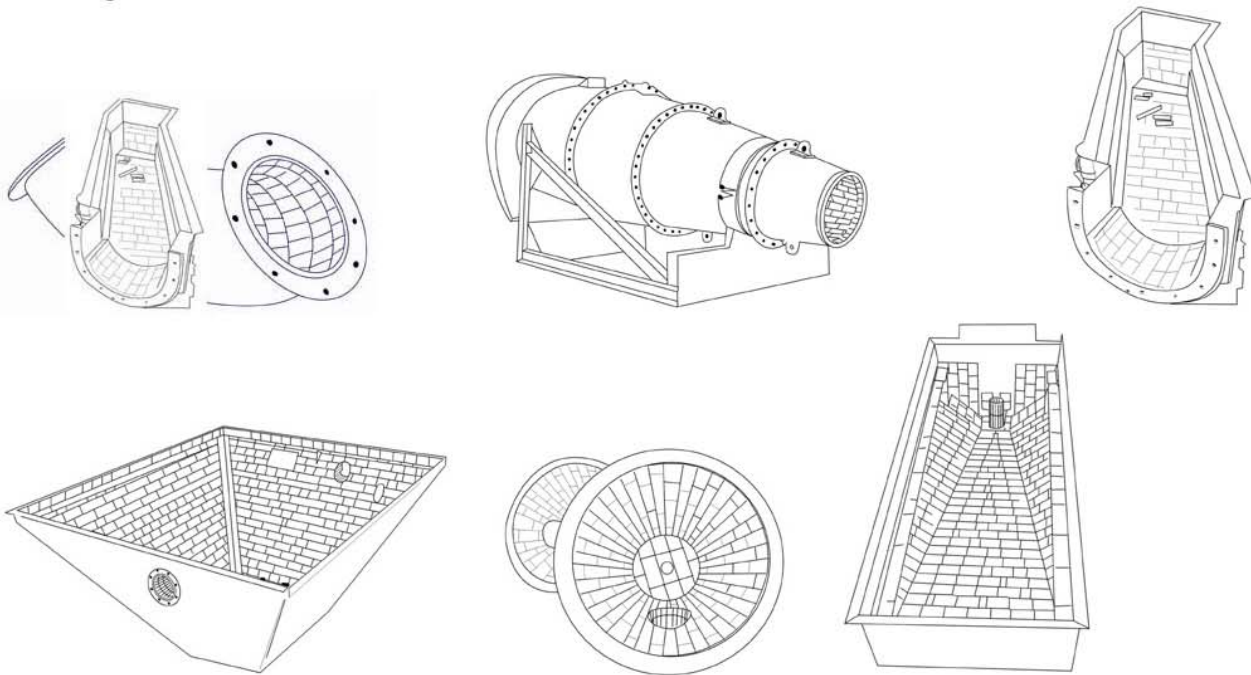
Colour	: Resin - White : Hardener - Beige
Mixing Ratio	: By Weight - 100 parts resin to 50 parts hardener
Specific Gravity/ 25°C	: Mixed system 1,55 – 1,60 g/cm <sup>3</sup>
Viscosity/ 25°C	: Mixed system – Semi thixotropic paste
Practical Working Time (Pot Life)	: 25°C : 10 – 15 minutes
Geltime / 25°C	: 50 – 55 minutes
Drying time/25°C	: 2-3 hours
Application	: By trowel
Coverage	: 1,55kg per m <sup>2</sup>
Heat Resistance	: 80 –85°C continuous exposure
Flammability	: Non- Flammable
Adhesion to steel ( shotblasted )	: > 10MPa
Adhesion to ceramics	: 12 MPa

### **Typical Cured Properties**

Hardness after 24 hrs	: Shore D80 –83
Tensile Strength ( DIN53454 )	: 20 Mpa
Impact Withstand ( DIN53455 )	: >5Kj/m <sup>2</sup>
Chemical Resistance	: Fully impervious ( when cured ) to oils, diluted acids, inorganic compounds, alkalis, petrol, benzine and alcohols.

### **Typical Applications**

Bonding ceramic wear tiles to horizontal and vertical surfaces  
 Bonding ceramic to ceramic  
 Bonding ceramic to steel  
 Bonding ceramic to metallics  
 Bonding ceramic to concrete  
 Bonding ceramic to aluminium



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## **TECHNICAL INFORMATION**

ELI-BOND FR972HT is an ambient temperature curing, non-flowing, two component epoxy tile adhesive with high temperature capabilities.

Colour	: Resin - White : Hardener - Amber / honey colour
Mixing Ratio	: By Weight - 100 parts resin to 18 parts hardener
Specific Gravity/ 25°C	: Mixed system 1,40 – 1,45 g/cm <sup>3</sup>
Viscosity/ 25°C	: Mixed system – Semi thixotropic paste
Practical Working Time (Pot Life): 25°C	: 10 – 15 minutes
Geltime / 25°C	: 20 – 25 minutes
Drying time/25°C	: 40- 45 minutes
Application	: By trowel
Coverage	: 1,45kg per m <sup>2</sup>
Heat Resistance	: 145°C continuous exposure, 175°C short cycle
Flammability	: Non- Flammable
Adhesion to steel ( shotblasted )	: 20 N/mm <sup>2</sup>
Adhesion to ceramics	: 18-20 N/mm <sup>2</sup>

### **Typical Cured Properties**

Hardness after 24 hrs	: Shore D85 – 90
Tensile Strength ( DIN53454 )	: 45 N/mm <sup>2</sup>
Impact Withstand ( DIN53455 )	: > 11kJ/m <sup>2</sup>

Chemical Resistance : Fully impervious ( when cured ) to oils, diluted acids, inorganic compounds, alkalis, petrol, benzine and alcohols.

## **Typical Applications**

Bonding ceramic wear tiles to horizontal and vertical surfaces

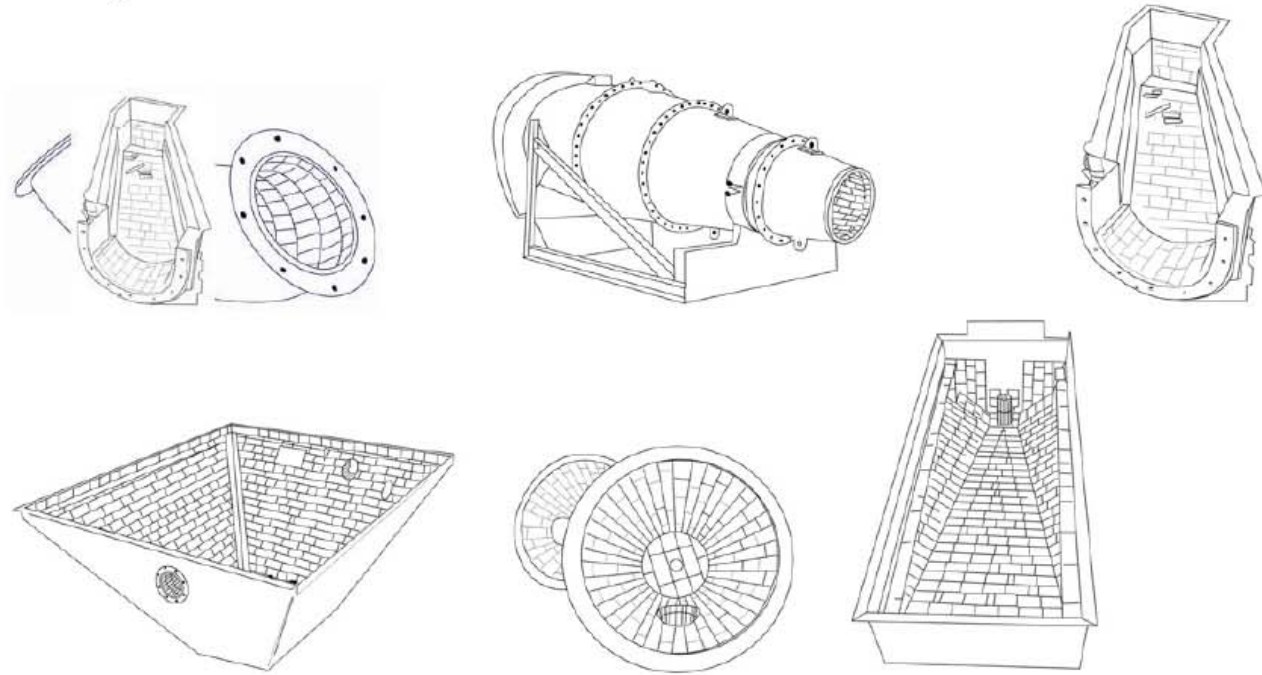
Bonding ceramic to ceramic

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Bonding ceramic to aluminium



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