



UPS 360 RRP Rubber Repair Paste – 60 Durometer is a high-performance paste grade elastomer which has been specially developed for on-site repairs to damaged conveyor belts. The material can also be used for many different applications such as: rubber repairs to tears, splits, cracks, sealing joints, valves, rollers, gaskets, chutes, off-road tyres, floating hoses, etc.,

UPS 360 RRP Rubber Repair Paste – 60 Durometer has outstanding application characteristics and exceptional mechanical properties once fully cured. The material also doesn't require priming for rubber surfaces making the repair procedure seamless.

Product Features

- Designed for application by trowel or spatula at thicknesses up to 6mm (237mil).
- Provides good cold vulcanizing capabilities.
- Outstanding application characteristics.
- Doesn't require primer for rubber surfaces.

Product Applications

Rubber repairs to tears, splits, cracks, sealing joints, valves, rollers, gaskets, chutes, off-road tyres, floating hoses, etc.,

Before proceeding, please read the following information carefully to ensure that the correct application procedure is fully understood.

Surface Preparation

All existing dirt, oil and grease should be removed and the surface wiped with *UPS CLEANER MEK*.

Any areas of frayed or fragmented rubber should be cut away to provide a sound repair area. Smooth surfaces, including metals, should be mechanically etched to produce a good profile, with abrasive blasting being preferred for metal substrates. Rubber surfaces are best roughened using a stiff wire brush / comb. Edges or repair areas of belts, hoses, tyres etc., should be undercut and all loose dust and particles should be blown clear of prepared surface.

Priming – Only Where Required

IMPORTANT NOTE – PRIMING IS **ONLY** REQUIRED FOR APPLICATIONS TO METALLIC, HARD PLASTICS, CONCRETE AND OTHER RIGID SURFACES. PRIMING IS **NOT** REQUIRE FOR RUBBER SUBSTRATES.

Where priming is required, please follow the necessary steps;

UPS 350 RP Rubber Primer has been designed to ensure a strong bond between the Rubber Range to Metals, Concrete,

Wood and various other rigid surfaces. Individual tests are recommended for plastic surfaces.

1. The application surface must be clean and roughened (depending on the surface; use emery cloth, slow speed sanding disc / brushes, or UPS Mini-Blaster).
2. Surfaces must be cleaned with UPS CLEANER MEK and dry prior to application of UPS 360 RRP.
3. The surface must be clean and dry to avoid bubbles, pinholes and possible foam development.
4. Apply UPS 350 RP Rubber Primer thinly (25 microns) and spread evenly. Leave to dry for 20 minutes @ 25°C.
5. Apply the UPS 360 RRP when the UPS 350 RP still shows a slight surface tack.

Note – If the primer is allow to fully cure / completely dry, this will not promote any adhesion between the application surfaces and the UPS 360 RRP.

Mixing

UPS 360 RRP is a two-component materials supplied in pre-measured sachets which must be mixed together prior to use.

Remove outer wrapper, and using scissors cut along the silver foil edge to remove the sachet packet. Be careful when cutting the silver foil packet not to damage the inner sachet.

Extract the central diving pin, which separates the two components in the sachet.

Mix the two components together by hand, squeezing the pack and kneading the mixture for 1 – 2 minutes. To ensure complete mixing the product must then be transferred to a mixing board as follows:

Using scissors cut off the corner of the pack to allow the mixed product to be dispensed onto a mixing board, the product should then be mixed until completely homogenous, this will normally take a further 60 seconds.

Application

The mixed material should be pressed firmly onto the prepared area working the product into cracks or defects on the surface. Where necessary, UPS 998 Reinforcement Tape should be bedded into the material and overlapped to provide multi-layer reinforcement. For full application details on conveyor belt repairs, please contact Unique Polymer Systems Technical Centre.

Technical Data & Performance

Characteristics

Coverage Rates

1KG (2.2LB) of fully mixed product will give the following coverage rates -	
0.6m ² at 1mm	4.46ft ² at 40mil
<i>Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.</i>	

Drying & Cure Times at 20°C (68°F)

Useable Life	5 – 7 minutes
Gel time	10 minutes
Setting Time	20 – 25 minutes (2mm thick application)
<i>Once hardener, the material should be left for the following periods of time at 20°C (68°F) before being subjected to the conditions indicated. These times will be doubled at 10°C (50°F) and halved at 30°C (86°F)</i>	

Appearance

Mixed Material Colour	Black Thixotropic Paste
Base Component Colour	Black Thixotropic Paste
Activator Component	Dark Brown Liquid

Shelf Life

2 years if unopened and store in normal dry conditions (15-30°C / 60-86°F)

Mixing Ratio

Component	Base	Activator
By Weight	100 pts	22 pts
By Volume	100 pts	18 pts

Density

Mixed	1.04
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Solids Content

100%

Pack Sizes

This product is available in the following pack sizes; 100GMS (0.22LB), 500GMS (1.1LB)

Mechanical Properties

Hardness – Shore D	60 – 62 (24 hour cure) 65 – 70 (7 day cure)
Hardness at 80°C Shore D	80
Tensile Strength DIN 53504	3-4 Mpa
Elongation at Break DIN 53504	260 – 270%
Impact Resistance DIN 53453	.10KJ/m ²
Tear Propagation Resistance	3-4 Mpa

Modulus	100% - 1.5 – 1.9 Mpa 300% - 3.5 Mpa
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Abrasion Resistance DIN 53516 mm²	350 - 450
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Heat Resistance

Suitable for 80 – 90°C (176 – 194°F).

Chemical Resistance

The product resists attack by a wide variety of inorganic acids, alkalis, salts and organic media. Refer to the Unique Polymer Systems LTD Technical Centre for advice.

Quality: All Unique Polymer Systems LTD Products are supplied under the scopes of the company's fully documented quality system.

Warranty: Unique Polymer Systems LTD warrants that the performance of the product supplied will confirm to the typical descriptions quoted within this Technical Data Sheet provided the material is stored correctly and used according to the procedures detailed in the Technical Data Sheet for the material.

Health & Safety: Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read the fully detailed Material Safety Data Sheet.

Legal Notice: The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. Unique Polymer Systems LTD accepts no liability arising out of the use of this information or the product described herein.