

TECHNICAL DATA SHEET

UPS 365 RR RUBBER REPAIR 60



UPS 365 RR RUBBER REPAIR 60 is a two-component fast curing solvent free urethane elastomer. The material has been designed for repairs to rubber linings, gaskets, conveyor belts and moulding. The product has been specifically developed for repairs to a wide range of rubber surfaces such as Nitrile, Neoprene & natural rubber.

Product Information

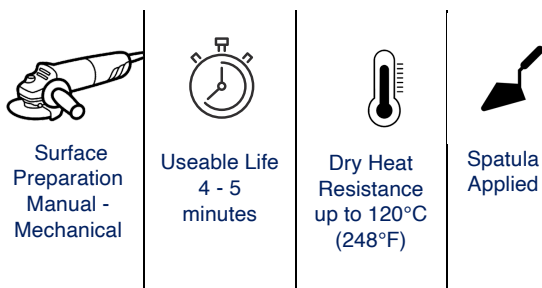
Product Features

- Suitable for emergency repairs.
- Designed for application using an application tool.
- Primary designed for repairing or maintaining equipment such as line process equipment.
- Fast curing
- Solvent free
- Flexible
- Simple and easy to use

Product Applications

Suitable for rubber repairs, such as;

Lining of process equipment, Rubber linings, gaskets, conveyor belts, lining of process equipment etc.,



Surface Preparation

Mechanical Substrates – Mechanical Abrasion

1. All oil and grease must be removed from the surface of the using UPS 9918 MEK CLEANER or a similar material.
2. All surfaces must be mechanically abraded using handheld grinders to **ISO 8501/4 ST3 (SSPC SP3 ST3)**
3. Once abraded, the surface must be degreased and cleaned using UPS 9918 MEK CLEANER or a similar material.

Metallic Substrates – Abrasive blast cleaning

1. All oil and grease must be removed from the surface of the using UPS 9918 MEK Cleaner or a similar material.
2. All surfaces must be abrasive blasted to **ISO 8501/4 Standard SA2.5 (SSPC SP10/ NACE 2)** minimum blast profile of 75 microns (3 mil) using an angular abrasive.

3. Once blast cleaned, the surface must be degreased and cleaned using UPS 9918 MEK CLEANER or a similar material.
4. All surfaces must be coated before flash rusting or oxidation occurs.

Please Note: For salt contaminated surfaces the substrate must be pressure washed with clean water and checked for salt contamination, please refer to the surface preparation and pre-application guide for further information.

Concrete

1. If the concrete surface is contaminated, pressure wash using clean water.
2. Once the concrete is dry, lightly abrasive blast or scarify taking care not to expose the aggregate.

Rubbers

1. All oil and grease must be removed from the surface using UPS 9918 MEK CLEANER or a similar material.
2. Rubber substrate must be abraded with mechanical or hand tools capable of creating rough, furry finish. Depending on the tools used and substrate type – hardness, different speeds or abrasive heads may be required.

Priming

Once all surfaces; metallic, rubber or concrete, have been prepared, apply UPS 366 P PRIMER to all surfaces using a brush. Apply the primer as liberally as possible (avoid ponding) to the surface and leave to cure for a minimum of 20 minutes and no longer than 4 hours at 20°C (68°F).

Mixing & Application

Prior to mixing please ensure the following:

1. The ambient and surface temperature are above 10°C (50°F).
2. The ambient and surface temperature are not less than 3°C (6°F) above the dew point.

Once checked, then proceed with mixing the product:

1. UPS 365 RR is supplied in a twin compartment (butterfly) bag with the base and activator components already pre-measured.
2. Remove the bag from the outer foil container and where possible, warm to around 20°C (68°F) to ease mixing.
3. Remove the plastic divider, thoroughly and vigorously mix the 2 components by hand until homogenous.
4. Cut the end of the foil bag and dispense onto a clean plastic mixing board, check for streaks and further mix with a plastic spatula where appropriate.
5. Transfer the mixed material onto the correctly prepared substrate and smooth with the supplied plastic applicator.
6. If required, encapsulate a layer of UPS 998 FLEXTECH REINFORCEMENT TAPE to create a strengthened laminate system

Technical Data & Performance

Coverage Rates

500GM (4750ML) of fully mixed product will give the following coverage rates -

0.475m² at 1mm

0.23m² at 2mm

0.16m² at 3mm

Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.

TECHNICAL DATA SHEET

UPS 365 RR RUBBER REPAIR 60

Drying & Cure Times

At 20°C (68°F) allow the applied materials to harden for the times shown below before subjecting them to the conditions indicated. These times will be increased at lower temperatures and decreased at higher temperatures.

Useable Life	4 – 5 minutes
Touch Dry	30 minutes
Machining	1 hour
Hard Dry	6 hours

Useable Life

10°C	10 minutes
20°C	5 minutes
30°C	2.5 minutes
40°C	1 minute

Minimum Overcoating Time

10°C	2 hour
20°C	1 hour
30°C	30 minutes
40°C	15 minutes

Maximum Overcoating Time

10°C	72 hours
20°C	36 hours
30°C	18 hours
40°C	9 hours

Water / Sea Water Immersion

10°C	6 days
20°C	3 days
30°C	36 hours
40°C	18 hours

Chemical Immersion

10°C	14 days
20°C	7 days
30°C	3.5 days
40°C	42 hours

Appearance

Mixed Material Colour	Black Paste
Base Component Colour	Black Paste
Activator Component	Opaque Paste

Available Colours

Black

Over Coating Times

Minimum	The applied material can be over coated as soon as it is touch dry, approximately 1 hour at 20°C (68°F)
Maximum	The over coating time should not exceed 36 hours

Where the maximum over coating time is exceeded, the material should be allowed to harden before being abraded or flash blasted to remove surface contamination.

Mixing Ratio

Component	Base	Activator
By Weight	3	1
By Volume	3	1

Density

Mixed	1.05
Base	1.06
Activator	1.025

Solids Content

100%

Slump Resistance

Nil at 2.0 cm

Pack Sizes

500GM (475ML)

Shelf Life

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

Mechanical Properties

Tensile Strength ASTM D412	70 kg/cm ² (1000psi)
Tear Strength ASTM D624	3,570kg/m ² (200plii)
Elongation ASTM D412	400%
Hardness Shore A D2240	64
90 Degree Peel Adhesion to steel ASTM D429 Abrasive blasted and primed with UPS 366 P	2850kg/m (160pli)
180 degree Peel Adhesion to Rubbers Tested to ASTM D413 Roughened with MBX and primed with UPS 366 P	Neoprene 696 kgm (39 pil) (TF) Butyl 357 kg/m (20pil) (CS) Nitrile 393 kg/m (22pil) (CS) Natural 178 kg/m (10pil) (CS) EPDM 428 kg/m (24pil) (CS)
TF = Tape Failure CS = Cohesive failure in substrate	
Taber Adhesion resistance Tested to ASTM D4060 1 day cure at 20°C (68°F)	CH18 wheels dry 365 cumm/1000 cycles
Dielectric Strength Tested to ASTM D149	16KV/mm

Heat Resistance

Suitable for long term water immersion at temperatures of 50°C (122°F) and intermittent water contact up to 80°C (176°F)

Resistant to dry heat up to 120°C (248°F)

Chemical Resistance

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

Global Availability

UPS 365 RR RUBBER REPAIR 60 is available from a network of Global Distributors for prompt delivery. For further details and the location of your local distributor, please contact Unique Polymer Systems on:
+44(0) 1531 636300 | sales@uniquepolymersystems.com

TECHNICAL DATA SHEET

UPS 365 RR RUBBER REPAIR 60

Technical Service

Complete technical assistance is available. Please contact Unique Polymer Systems with your requirements:
+44(0) 1531 636300 | sales@uniquepolymersystems.com

The products that we supply are for professional use only, it is your responsibility to read the technical data sheets before you place an order and prior to application of the product

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

Warranty: Unique Polymer Systems warrants that the performance of the product supplied will conform 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 accepts no liability arising out of the use of this information or the product described herein.



**USED ALL OVER
THE WORLD**