

Unique Polymer Systems LTD

UPS 80XRG



Data Sheet and Application Guide

Product Description

UPS 80XRG has been specifically developed as a fast curing elastomeric repair system with a high degree of flexibility for rebuilding and resurfacing rubber components.

Product Features

- Properties equal to factory produced rubbers.
- Provides good cold vulcanising capabilities.
- Designed for use to repair conveyor belts, rollers, gaskets, hoses, off road tyres etc.

General Application Steps

1. Remove oil, grease and loosely adhering deposits and degraded rubber.
2. Thoroughly abrade the surface, to produce a rough fibrous finish.
3. Apply the primer and allow to dry.
4. Apply UPS 80XRG to the required thickness.
5. Allow to cure.
6. Visually inspect the coating for defects.
7. Repair all defects.

Properties

Property	Value
Colour	Black
Ratio	4:3 By volume 4:3 By weight
Drying & Cure times at 20°C (68°F)	
Usable life	3 mins
Initial Set	30 mins
Full Mechanical	24 hours
Volume Solids	100%
V.O.C (As Supplied)	Nil
Volume Capacity	932cc per kilo
Performance Data	
Tensile Strength	10N/mm ² (1450 psi) (ASTM D412)
Dielectric Strength	16KV/mm (ASTM D149)
Elongation	250% (D412)
Shore A Hardness	80 (ASTM D2240)
Tear Strength	45N/mm (292 pli) (ASTM D624)
Maximum Operating Temperature	80°C (176°F) - Dry 50°C (122°F) - Wet
UV Resistance	No loss in properties after 1000 hours exposure (BS 3900:F3)
Peel Adhesion (Concrete & Steel)	9kg/cm (50pli) - cohesive failure in product (ASTM D903)

Application Procedures for UPS 80XRG

Surface Preparation

All existing dirt, oil and grease should be removed and the surface wiped with UPS Universal Cleaner. 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 of repair areas of belts, hoses, tyres etc. should be undercut. All loose dust and particles should be blown clear of the prepared surface. On certain repairs such as gaskets and castings where one surface is not required to bond to the UPS 80XRG, these surfaces should be treated with UPS Release Agent.

Priming

All areas to be repaired or resurfaced should be first primed with a special fast setting UPS primer comprising UPS Urethane Elastomer Primer 075 premixed with UPS Urethane Elastomer 60RG Primer Catalyst. The contents of the catalyst bottle should be added to the primer container immediately prior to use and the container should then be shaken to ensure complete mixing is achieved. After use the container should be resealed, taking care not to contaminate the contents. This resealed UPS Urethane Elastomer 60RG Primer will have a limited shelf life of up to 3 months. The primer should be applied with a soft bristled brush to give an even, but low coating thickness, taking care to avoid ponding of the primer. The primer should be allowed a minimum of 10 minutes and a maximum of 1 hour at 20°C before applying UPS 80XRG.

Product Mixing

UPS 80 XRG is a two component material supplied in 1kg units which must be mixed together prior to use, the two components mixed thoroughly to produce a smooth streak free material.

Thorough mixing is extremely important, and once the material appears mixed, a further period of mixing should be carried out to ensure there is not unmixed material. Once mixed the material should be used within 3 minutes, at 20°C.

Application Procedures

The mixed material should be smoothed onto the prepared area working the product into cracks or defects on the surface. Where necessary, reinforcement tape should be bedded into the material and overlapped to provide multi-layer reinforcement. All equipment must be cleaned IMMEDIATELY after use with UPS Universal Cleaner.

Packaging and Storage

Supplied in 1kg packs.

Use within 12 months of date of manufacture. Store in original sealed containers at temperatures between 5°C and 32°C.

Handling and Safety Precautions

Read all health hazard, precautionary and first aid statements found in the Material Safety Data Sheet, and/or product label prior to handling or use.

Ordering Information/Customer Service

For ordering, technical and product information or to request a copy of the Material Safety Data Sheet, call +44 (0)1531 636300.

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