

Technical Data Sheet

UPS 19060 SG Metal Grade Stick



UPS 19060 SG Stick Grade Metal is a specially packaged rapid curing synthetic metal repair compound for on site repairs to metal components such as leaking pipes, tanks, ducts, radiators, etc.,

Product Features

- Simple to use; only requiring simple hand mixing to activate reaction between the concentrically packed components.
- Designed for application by gloved hand, putty knife or spatula.
- Can be applied to any damaged metal surface, plus glass, fiberglass and other composite surfaces.
- Designed for rapid repairs to cracked casting, leaking pipes, tanks, flanges, etc., minimizing downtime.
- Exhibits excellent adhesion to correctly prepared metal surfaces.

Product Applications

Suitable for emergency repairs or part of planned maintenance to equipment such as; worn or damaged pump shafts, cracked pump or valve casings, scored hydraulic rams, worn bearing housings, damaged flanges, leaking tank seams, worn keyways, cracked engine blocks, etc.,

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

Surface Preparation

All oil and grease must be removed from the surface of the using UPS CLEANER MEK.

The material is suitable for application to manually prepared surfaces such as hand wire brush, sanding, mechanical grinding or wire brush.

All loose material such as rust or flaking paint must be removed prior to the application of this product.

Mixing & Application

The product is supplied in stock form and therefore the Base and Activator components are pre-measured.

Simply break off the required amount of material from the stick and using gloved hands, knead the product until the black and grey components become a consistent mid grey.

The product once fully mixed has a useable life of 3-5 minutes at 20°C (68°F).

Technical Data & Performance

Characteristics

Drying & Cure Times at 20°C (68°F)

Useable Life	5 minutes
Hard Dry	30 minutes
Machining & Light Loading	30 minutes
Full Loading	1 hour
Immersion	1 hour

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)

Over Coating Times

Minimum	The applied material can be over coated as soon as it is touch dry
Maximum	The over coating time should not exceed 3 hours
<i>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.</i>	

Shelf Life

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

Mechanical Properties

Compressive Strength ASTM D695	5000 psi
Tensile Shear Adhesion ASTM D1002 (Abrasive Blasted Mild Steel with 75 micron profile)	650 psi
Flexural Strength ASTM D790	3,250 psi
Hardness Rockwell R ASTM D785	85
Corrosion Resistance ASTM B117	Minimum 5000 hours

Heat Resistance

Suitable for long-term water immersion at temperatures up to 140°C (284°F).

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.



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