

Technical Data Sheet

UPS 19060 SGUW Stick Grade Metal Underwater



UPS 19060 SGUW Stick Grade Metal Under Water is a two-component repair material in stock form which cures underwater after mixing. It is a metal repair adhesive which develops high mechanical strength in a short period of time.

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

The material is suitable for application to manually prepared surfaces, all loose material such as old coatings and repair materials must be cleaned from the surface prior to application.

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 green and cream components become a consistent light green

The product once fully mixed has a useable life of 15 minutes at 20°C (68°F).

Once a consistent mix has been achieved apply the material by pressing the putty into the prepared surface.

Characteristics

Drying & Cure Times at 20°C (68°F)

Useable Life	15 minutes
Hard Dry	45 minutes
Machining & Light Loading	45 minutes
Full Loading	90 minutes
Immersion	90 minutes
<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>	

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	446kg/cm (6,350 psi)
Tensile Shear Adhesion ASTM D1002 (Abrasive Blasted Mild Steel with 75 micron profile)	70kg/cm (1,000 psi)
Flexural Strength ASTM D790	510kg/cm (7,275 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 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 LTD accepts no liability arising out of the use of this information or the product described herein.

Technical Data & Performance



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