

resimac Ltd.

105 Aqua Stick

A two component epoxy putty stick designed for underwater repairs. Bonds and cures underwater, providing a fast and reliable solution for emergency leak sealing.

- Bonds and cures underwater
- Rapid curing, hard dry in 45 minutes
- Simple to mix and apply
- Suitable for emergency leak sealing

2025 Product Sheet

Typical Applications

105 Aqua Stick is a fast curing, two component epoxy putty formulated for underwater repairs. Designed to bond to concrete and metallic surfaces, it cures effectively even in wet conditions, making it ideal for emergency leak sealing and structural repairs.

- Underwater structural bonding
- Concrete and metallic surface repairs underwater
 - Emergency leak sealing in submerged environments

Cure times

Useable Life

10°C/50°F	30 mins
20°C/68°F	15 mins
30°C/86°F	7.5 mins
40°C/104°F	3.5 mins

Min Machining Time

10°C/50°F	1.5 hours
20°C/68°F	45 mins
30°C/86°F	22.5 mins
40°C/104°F	11 mins

Full Cure

10°C/50°F	3 hours
20°C/68°F	1.5 hours
30°C/86°F	45 mins
40°C/104°F	22.5 mins

Characteristics

Appearance

Base	Green putty
Activator	Cream putty
Mixed	Light green putty

Solids Content

100%

Volume Capacity

55.5cc per 125gm stick

Mixing Ratio

Product supplied in stick form

Storage Life

5 years if unopened and stored in normal dry conditions, 15-30°C (59-86°F)

Sag Resistance

Nil at 25mm

Overcoating Times

Minimum: The applied material can be overcoated as soon as it is touch dry.

Maximum: The overcoating time should not exceed 90 mins.

Mechanical Properties

Compressive Strength

Tested to ASTM D695
843kg/cm² (12,000psi)

Flexural Strength

Tested to ASTM D790
455kg/cm² (6470psi)

Heat Resistance

Suitable for use in immersed conditions at temperatures up to 50°C (122°F)
Resistant to dry heat up to 150°C (302°F) dependent on load

Adhesion

Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75 micron profile 185 kg/cm² (2630 psi)

Pull off Adhesion to ASTM D4541 on mechanically prepared mild steel to ST2 surface cleanliness 125kg/cm² (1780 psi)

Hardness

Rockwell R to ASTM D785 92

Details & Legal

Chemical Resistance

The product resists attack by a wide variety of inorganic acids, alkalis, salts and organic media. For more detailed information refer to the Resimac Technical Centre for advice.

Quality

All Resimac Products are supplied under the scope of the company's fully documented quality system.

Warranty

Resimac warrants that the performance of the product supplied will conform to the typical descriptions quoted within this specification provided material is stored correctly and used according to the procedures detailed in this document.

Pack Sizes

This product is available in the following pack sizes:
125gm (0.27lbs)

Application Guide

A. Surface Preparation

Metallic Substrates: Hand tools

- 1 The material is suitable for application to manually prepared surfaces that are underwater, including flanges.
- 2 All loose material such as old coatings and repair materials must be cleaned from the surface prior to application using wire brush, chisels or scrapers.

PLEASE NOTE: Where the maximum overcoating time is exceeded, the material should be allowed to harden before being abraded.

B. Mixing & Application

Prior to mixing, please ensure the following:

- 1 The ambient & surface temperature is above 5°C (41°F).
- 2 The product is supplied in stick form and therefore the base and activator component are premeasured.
- 3 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 pale green colour.
- 4 The product once fully mixed has a usable life of 15mins at 20°C (68°F).

Health & Safety

Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves and other recommended personal protective equipment must be worn during the mixing and application of this product.

Before mixing and applying the material, please ensure you have read and fully understood all information.

Quick Application Guide



Step 1

Remove the metal stick from the plastic tube.



Step 2

Cut off the required amount.



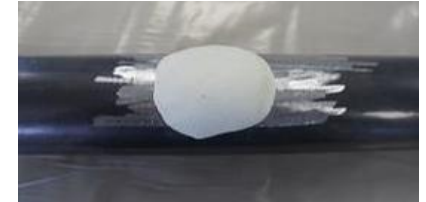
Step 3

Using a gloved hand mix the 2 components together.



Step 4

Ensure you have a consistent light green coloured putty before applying.



Step 5

Apply the mixed product to the damaged surface.

About Resimac

A UK based manufacturer of epoxy and polyurethane coatings and repair materials.

From our head office in the heart of rural North Yorkshire, England we supply our range of Epoxy, Polyurethane & Silicone coatings and repair materials to the Oil & Gas, Petrochemical, Marine, Paper & Pulp, Water, Power Generation & Chemical Industries.

Legal Notice

The data contained within this Product Specification 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. Resimac accepts no liability arising out of the use of this information or the product described herein.

Information & Enquiries

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