



TECHNICAL DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

Issued: August 2020

Rapidstick™ 8-145 Epoxy Putty

PART NUMBER	AVAILABLE SIZE
8-145-57	57g Epoxy Putty Stick

PRODUCT DESCRIPTION

Chemtools® Rapidstick™ 8-145 Epoxy Putty is an impact resistant kneadable putty with high bond strength. It consists of two parts in a 1:1 mix ratio and can be easily applied by hand or trowel. Part A (Resin - outer part) and Part B (Hardener - inner part) are separated by a thin film of plastic, and once removed and thoroughly kneaded to combine, the putty sets into an extremely tough, permanent substance, equal to the hardness of metal, in just 15 minutes at room temperature.

8-145 is used as a moldable space-filler for any shaped space, wet or dry, and can be used as a sealant, gap filler, adhesive, putty, or cement. It can be easily applied by hand or trowel, and bonds to a wide range surfaces, with excellent adhesion to most substrates.

Upon cure, Epoxy Putty can be sanded, drilled, tapped, machined, filed, and painted. It is ideal for the permanent repair of cracks, holes, dents, and leaks, plus the reshaping of damaged surfaces (chipped railings, dented skirting boards, etc.) and the long-term mounting of signs to walls.

DIRECTIONS (READ LABEL BEFORE USE)

Ensure surfaces are clean and free of grease and oil. Surfaces should be lightly abraded to achieve the best results.

Cut Epoxy Putty stick to the desired size. Mix well, kneading the putty until a uniform grey colour is achieved.

Apply immediately, or within 4 to 5 minutes, whilst putty is still pliable. Push well into holes, cracks, etc, to completely fill the gap or create a tight seal.

Epoxy Putty will begin to harden approx. 5 minutes after mixing, and will set within 15 to 20 mins.

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PHYSICAL PROPERTIES:

Colour – Outer Resin	Black
Colour – Inner Hardener	White
Colour when mixed	Grey
Mixed Viscosity @ 25°C	1.90
Flash Point	>80°C
Working Time	4 – 5 minutes
Cure Time	15 – 20 minutes
Optimal Bond Strength	2 – 3 hours
Full Cure	12 hours
Shelf Life (un-opened)	12 months when stored at room temperature

MECHANICAL PROPERTIES:

Cured Hardness (Shore D)	75 – 78
Tensile Shear Strength	6.1 MPa
Temperature Resistance	110°C
Compression Strength	81 MPa

ELECTRICAL PROPERTIES:

Thermal Conductivity	0.1 W/m K
Dielectric Strength	11 kV/mm

CHEMICAL RESISTANCE INFORMATION: A study was undertaken to determine the chemical resistance when exposed to various substances. Two pieces of aluminium were bonded together and allowed to fully cure over a period of 7 days at 25°C. They were then immersed in various chemicals for another 7 days. The results follow:

CHEMICAL NAME	RESULT
Water (23°C)	Very Good
Water (90°C)	Very Good
Petrol	Fair
Xylene	Fair
Paraffin Oil	Good
Sulphuric Acid	Poor
IPA	Poor
Ammonia	Fair
MEK (Methyl Ethyl Ketone)	Poor



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FIRST AID & SAFETY PRECAUTIONS

Please refer to Safety Data Sheet (SDS) before use. Use with adequate ventilation and avoid breathing fumes. Avoid contact with eyes and skin. This product may produce adverse health conditions, ranging from minor skin irritation to serious systemic effects. It should not be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheet (SDS) for this product have been fully understood by all persons who will work with the material.

DISCLAIMER

Chemtools® has made every effort to ensure the information provided in this Technical Data Sheet is accurate at the time of publication. Chemtools® expressly recommends that the user make his/her own assessment to determine the suitability of the product for its intended purpose prior to application. Chemtools shall not be responsible for loss, damage, or injury, resulting from the reliance upon, or failure to adhere to, any recommendations or information contained herein; nor from abnormal use of the material; nor from any hazard inherent in the nature of the material.

FURTHER INFORMATION

Please visit Chemtools® online at www.chemtools.com.au for product photos, marketing materials, Technical Data Sheets, Safety Data Sheets, contact details, and other company/business related information.

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