

Technical Data Sheet

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Safety Data Sheets, product photos, and other information can be obtained by visiting www.chemtools.com.au



Rapidstick™ 8-145 Epoxy Putty (Grey)

PART NUMBER	SIZE
8-145-57	57g Epoxy Putty Stick <i>Note: This product is also an Included component in the Rapidstick™ Pipe Repair Bandage Kit (P/N: 8-PBK)</i>
8-145-57-POS	57g Epoxy Putty Stick, 36pc P.O.S. (Point of Sale) Display Box

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) and Part B (Hardener) 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.

8-145 is used as a moldable space-filler for any shaped space, wet or dry, and is commonly used as a sealant, gap filler, adhesive, putty, or cement. It can even be applied under water*, with excellent adhesion to most substrates. Upon functional cure, Epoxy Putty can be sanded, drilled, tapped, machined, filed, and painted, and after full cure is resistant to full system pressures. 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.

As a pipe repair reinforcement putty, included in the **Rapidstick™ Pipe Repair Bandage Kit (Part No. 8-PBK)**, it allows for the quick and effective permanent repair of damaged pipes requiring fast reinforcement to stop sudden leaks, cracks, or bursts. An essential component in the kit, it is suitable for both plumbing repair specialists and DIY enthusiasts alike, and can be used to fix leaks in domestic systems, or for larger industrial pipelines on pipes of various materials, including metal, plastic, and rubber.

*Curing time will vary according to the temperature of the water. Cold water will slow the cure time and warmer water will result in a faster cure time. The depth of the body of water contributes to added pressure while the putty cures, which may affect the end result of the product. Ideally, application in dry environments allows for optimum results, however, application under water during emergency repairs can be an effective temporary 'stop-gap'.

PLUMBING USES & APPLICATIONS

- Temporary or long-term fixes for leaks or cracks in pipes until a permanent repair can be made, allowing for continued use of the system until the replacement is complete.
- Plumbing repairs across all types of plumbing systems, including water supply pipes, drain pipes, or sewer pipes.
- Industrial pipe repairs in chemical plants, oil refineries, and manufacturing facilities.
- Underground pipe repairs, including water mains or sewer lines.
- HVAC (air conditioning) system repairs for leaking pipes in heating or ventilation systems, including refrigerant lines or condensate drains.
- Irrigation system repairs for efficient water distribution in agricultural or landscaping systems.
- Marine pipe repairs on boats, ships, or offshore structures.
- Emergency repair situations of all types to prevent further damage or flooding.
- DIY projects or domestic small-scale repairs, such as fixing leaks in household plumbing or yard irrigation systems.

APPLICATION GUIDELINES

Ensure surfaces are clean and free of grease and oil. Surfaces should be lightly abraded to achieve the best results. For pipe repair, minimise the flow rate and reduce system pressure. Prepare the pipe surface by cleaning it thoroughly and roughen/abrade the area to enable optimum adhesion of the putty.

Cut the putty stick to the desired size. Knead the putty stick until both components are thoroughly mixed into a single, uniform colour.

Apply immediately, or within 3 to 5 minutes whilst putty is still pliable. Place the putty in and around the hole or crack, checking to ensure a complete seal. Push well into the area to completely fill the gap or create a tight seal.

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Putty will begin to harden approx. 5 minutes after mixing, with a tenacious bond obtained within 10 – 20 minutes. Refer to Technical Data below for various cure times.

TECHNICAL DATA

Colour – Outer Resin	Black
Colour – Inner Hardener	White
Colour when mixed	Grey
Mixed Viscosity @ 25°C	1.95
Flash Point	>90°C
Working Time	3 – 5 minutes (Tenacious bond obtained within 10 – 20 minutes)
Functional Cure	Approx. 30 minutes
Alteration Time	After 60 minutes, can be sanded, drilled, tapped, machined, filed, and painted
Full Cure	24 hours
Shelf Life (unopened)	Minimum 12 months when stored at temperatures between 5°C and 25°C
Chemical Resistance	Unaffected by a wide range of <u>diluted</u> chemicals and fuels, including acids, alkalis, solvents, and oils.
Full Cure Hardness	75 – 80 (Shore D)
Lap Shear Tensile Strength	800 – 900 psi (Steel: 1" x 1" x 1/16")
Temperature Resistance	120°C
Compressive Strength	8,000 – 10,152 psi
Electrical Resistance	30,000 (Megaohm)
Thermal Conductivity	0.1 W/m K
Dielectric Strength	280 V/mm (11 kV/mm)

FIRST AID & SAFETY PRECAUTIONS

Always refer to Safety Data Sheet/s before use. Use proper Personal Protection Equipment. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Avoid breathing fumes. Keep away from heat, sparks, open flames, and hot surfaces. 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/s for this product have been fully understood by all persons who will work with the material.

STORAGE & TRANSPORT

Refer to Safety Data Sheet/s for recommendations. As a general precaution, keep containers tightly closed, protect from sunlight, and do not expose to temperatures exceeding 50°C. Do not return any unused material to its original container.

DISCLAIMER

Every effort has been made to ensure the information provided in this document is accurate at the date of publication. Chemtools® Pty Ltd 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® Pty Ltd 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.