

Resi EPO Aluminium Putty 10 is a two-component, solvent-free, aluminum-filled fast cure epoxy repair compound designed for rebuilding, filling, and repairing aluminum and light metal surfaces. When mixed, the base and hardener react to form a high-strength, lightweight compound. It is a high-performance putty that provides excellent thermal conductivity, good corrosion resistance, and a natural aluminum appearance.

FEATURES & BENEFITS

- ✓ Two-component, easy-to-mix and apply.
- ✓ Can be applied on vertical surfaces due to its non-sagging properties.
- ✓ Excellent adhesion to most rigid substrates.
- ✓ Can be drilled, tapped, machined, or sanded after curing.
- ✓ Resistant to oil, water, fuels, and many industrial chemicals.
- ✓ Ideal for repairing worn parts, cracks, holes, and surface defects.
- ✓ High compressive and tensile strength ensuring durable repairs.

RECOMMENDED USES

- ✓ Repair of aluminum castings, housings, panels, pipes, and structural components.
- ✓ Rebuilding worn areas, restoring dimensions, resurfacing aluminum and light alloy parts.
- ✓ Filling cracks, holes, corrosion pits, and surface irregularities on aluminum equipment.
- ✓ Maintenance and repair of marine vessels, automotive parts, aerospace components, and food processing equipment.
- ✓ Suitable for workshops, transportation industries, marine environments, and applications requiring lightweight repairs.

SURFACE PREPARATION

All surfaces must be clean, dry, and free from oil, grease, rust, scale, and contaminants. For best adhesion, the substrate should be roughened by abrasive blasting or mechanical abrasion to achieve a minimum surface profile of 75 microns. After surface preparation, clean thoroughly with a suitable solvent cleaner to remove all dust and residues before applying the compound.

APPLICATION

Before use, thoroughly mix the Base and Hardener components in the ratio of 100:33 by weight until a uniform colour and smooth consistency are obtained. The mixed material should be applied immediately using a putty knife, spatula, or trowel.

The working time of the 100gm mixed material is approximately 10 minutes at 25°C, depending on ambient temperature. Machining, drilling, or overcoating may be carried out once the compound has fully cured, typically after 24 hours at 25°C. Clean all tools and application equipment promptly after use with a suitable epoxy thinner or solvent before the material hardens.

SHELF LIFE

12 months from date of manufacture (sealed containers).

TECHNICAL PROPERTIES

Property	Typical Data
Type	Two-component (Base + Hardener)
Mixing Ratio (by weight)	100:33
Appearance	Light Grey Paste
Density	1.54 ± 0.05 g/cm ³ (mixed)
Pot Life	10-12 minutes (100gm) @ 25°C
Touch Dry	45 min – 1.5 hours @ 25°C
Full Cure	24 hours @ 25°C (faster with heat)
Compressive Strength	> 85 MPa
Flexural Strength	> 43 MPa
Temperature Resistance	Up to 90°C (dry service)
Solids	95% or above

PACK SIZE

Ressi EPO Aluminium Putty 10 is available in the following pack sizes:

250 g and 85 g (Base + Hardener)
500 g and 170 g (Base + Hardener)

HEALTH AND SAFETY

Ressi EPO Aluminium Putty 10 contains epoxy resins and amine hardeners. Avoid contact with skin and eyes and do not inhale vapors. Always wear gloves, goggles, and suitable protective clothing during use. Ensure adequate ventilation in the working area. In case of contact, wash immediately with soap and water and seek medical attention if irritation occurs. Refer to the Material Safety Data Sheet (MSDS) for complete safety and handling information.