RESSI EPO IRON PUTTY

Two-Component Metal Repair and Rebuilding Compound

RESSICHEM®
adding life and value to your property

Ressi EPO Iron Putty is a two-component, solvent-free, non-rusting metal-filled epoxy repair compound designed for rebuilding, filling, and repairing worn or damaged metal surfaces. When mixed, the base and hardener react chemically to form a high-strength, machinable compound that adheres strongly to most metals and hard substrates.
It provides excellent mechanical strength, corrosion resistance, and long-term durability under service conditions, making it ideal for emergency repairs and maintenance applications in industrial environments.

FEATURES & BENEFITS

- Two-component, easy-to-mix and apply.
- Excellent adhesion to cast iron and 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 pumps, housings, shafts, flanges, and valves.
- Rebuilding worn areas of machine parts and metal components.
- Filling cracks, holes, corrosion pits, and surface irregularities.
- Suitable for workshops, power plants, marine, and process industries.

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.

ریسیکیم®
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APPLICATION

Before use, thoroughly mix the Base and Hardener components in the ratio of 1:1 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 mixed material is approximately 40 to 50 minutes at 25°C, depending on ambient temperature. Machining, drilling, or overcoating may be carried out once the compound has fully cured, typically after 12–16 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 the date of manufacture when stored under warehouse conditions in original unopened packaging. Extreme temperature / Humidity may reduce shelf life.

TECHNICAL PROPERTIES

Property	Typical Data
Type	Two-component (Base + Hardener)
Mixing Ratio (by weight)	1 : 1
Appearance	Metallic grey paste
Density	1.90 ± 0.05 g/cm^3 (mixed)
Pot Life	40 - 50 minutes @ 25°C
Touch Dry	4–5 hours @ 25°C
Full Cure	12–16 hours @ 25°C (faster with heat)
Compressive Strength	> 90 MPa
Tensile Strength	> 20 MPa
Temperature Resistance	Up to 120°C (dry service)
Solids	95% or above

PACK SIZE

Ressi EPO Iron Putty is available in the following pack sizes:

500g:	Part A 250g (Base) Part B 250g (Hardener)
1 KG:	Part A 500g (Base) Part B 500g (Hardener)
5 KG:	Part A 2.5 KG (Base) Part B 2.5 KG (Hardener)

HEALTH AND SAFETY

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.