

CP RP PUTTY

Product Description:

Polyester Resin-Based Putty is a high-performance, easy-to-use filler designed for repairing and filling imperfections on a variety of surfaces, including metals, fiberglass, and wood. It is formulated with premium-quality polyester resins to provide excellent adhesion, durability, and ease of sanding. This putty is ideal for automotive, marine, and industrial applications, providing a smooth, flawless surface for subsequent coatings or finishing.

Key Features:

- ❖ **Excellent Adhesion:** Bonds effectively to metal, wood, concrete, and fiberglass.
- ❖ **Durable & Flexible:** Offers high strength with flexibility, preventing cracking and shrinking.
- ❖ **Easy to Apply:** Smooth consistency that is easy to mix, spread, and shape.
- ❖ **Sanding-Friendly:** Sands easily to a smooth, even finish for painting or coating.
- ❖ **Fast Curing:** Quick setting time, reducing downtime during repair work.
- ❖ **Water-Resistant:** Provides a moisture-resistant finish, ideal for outdoor or marine applications.
- ❖ **Versatile Use:** Suitable for automotive, boat repair, industrial, and general-purpose repairs.

Product Application:

- ❖ **Substrate:** Metal, fiberglass, wood, concrete, and other non-porous surfaces.
- ❖ **Application Method:**
 - **Putty Knife or Spatula:** Use a clean, flat-edged putty knife or spatula to apply the putty to the surface.
 - **Smooth and Shape:** Smooth the surface to the desired finish. Can be shaped or molded, if necessary, before curing.
- ❖ **Surface Preparation:**
 - Clean and degrease the surface to remove dirt, grease, rust, or old paint.
 - Sand the surface for better adhesion, especially for metal and fiberglass.
 - Ensure that the surface is dry before applying the putty.

❖ Mixing Ratio:

- Putty (Base): 100 parts by weight
- Hardener (Catalyst): 1.5-2% of the weight of the base material (approximately 15-20g per 1kg of putty)

❖ Mixing Instructions:

- Thoroughly mix the base material and the hardener until a uniform colors achieved.
- Use a clean mixing surface and tools to avoid contamination.

❖ Pot Life: 5-10 minutes at 25°C (77°F)

❖ Working Time (After Mixing): 15-30 minutes, depending on ambient temperature and humidity.

❖ Curing Time (at 25°C / 77°F):

- Touch Dry: 20-30 minutes
- Fully Cured: 1-2 hours (depending on thickness and ambient conditions)

❖ Sanding Time: After curing, the putty can be sanded within 30 minutes to 1 hour for the best results.

Technical Properties:

Property	Value
Type	Polyester resin-based putty
Color	[Insert Color] (e.g., Off-white, Gray, etc.)
Consistency	Paste
Viscosity (at 25°C)	500,000 - 1,000,000 cps
Density	1.5-1.8 g/cm ³
Working Time (Pot Life)	5-10 minutes
Cure Time	1-2 hours at 25°C (77°F)
Mixing Ratio (Putty: Hardener)	100:1.5 to 2% by weight
Sanding Finish	Smooth, easy to sand to a fine finish
Shrinkage	<1% (depending on curing conditions)
Water Resistance	Excellent (ideal for marine applications)

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Property	Value
Chemical Resistance	Good resistance to acids, alkalis, and solvents
Hardness (Shore D)	60-70
Flexural Strength	40-50 MPa

Performance Characteristics:

Test	Standard	Result
Adhesion to Metal	ASTM D4541	>10 MPa (steel surface)
Sanding Performance	ASTM D3359	Passes (no clogging, easy sanding)
Impact Resistance	ASTM D2794	>50 in-lb. (direct impact)
Water Immersion Resistance	ASTM D870	No blistering or softening after 500 hours
Temperature Resistance	ASTM D2240	Stable up to 80°C (176°F)

Health & Safety:

❖ Precautions:

- Use in a well-ventilated area, preferably with a fume extraction system.
- Wear appropriate protective equipment such as gloves, goggles, and a respirator (when sanding or in high-concentration environments).
- Avoid contact with skin, eyes, and inhalation of vapors.
- In case of skin contact, wash immediately with soap and water. In case of eye contact, flush with water for 15 minutes and seek medical attention.

- ❖ **Safety Data Sheet (SDS):** Available upon request.

Storage and Shelf Life:

❖ Storage Conditions:

- Store in a cool, dry place away from direct sunlight and heat sources.
- Keep containers tightly sealed when not in use.
- Avoid storing near oxidizing agents, acids, or alkalis.

❖ Shelf Life:

- Putty Base: 12 months (in unopened container)
- Hardener: 6-12 months (in unopened container)

Packaging:

❖ Putty (Base):

- Available in 250g, 500g, 1kg, 5kg, 10kg containers.

❖ Hardener (Catalyst):

- Available in 30g, 100g, 250g, and 500g containers (dependent on size of putty containers).

Disclaimer:

The information provided in this Technical Data Sheet is based on the manufacturer's knowledge and experience with the product. Conditions of use are beyond our control, and it is the responsibility of the user to ensure that the product is suitable for their specific application. The manufacturer assumes no liability for any damage or loss resulting from improper use of this product.

This TDS provides the essential details for a **Polyester Resin-Based Putty**. It covers technical specifications, application methods, and safety information, ensuring users have the necessary information for proper use and handling. You can adjust the product details or specifications as needed to match your specific formulation.