

## PRODUCT DESCRIPTION

**RC-502** is a free-flowing, white copolymer powder produced by spray-drying vinyl acetate and ethylene emulsion. It is designed to readily redisperse in water to form a stable emulsion.

As a high-performance additive for dry-mix mortars, RC-502 acts as a polymeric binder that enhances the **adhesion**, **flexibility**, and **workability** of cement, gypsum, and lime-based construction materials. It significantly improves the cohesion and long-term durability of the final product.

## KEY FEATURES &amp; BENEFITS

- Superior Adhesion:** Significantly improves bond strength to difficult substrates like concrete and brick.
- Enhanced Flexibility:** Provides essential flexibility ( $T_g$  approx.  $0^{\circ}\text{C}$ ) to absorb stress and reduce cracking.
- Excellent Workability:** Improves rheology, lubricity, and extends open time.
- Water Resistance:** Enhances durability in wet conditions.

## RECOMMENDED APPLICATIONS

- Ceramic Tile Adhesives:** Conforms to C1/C2 standards (ISO 13007).
- EIFS / ETICS:** Bonding mortars and base coats.
- Wall Putty / Skim Coat:** Interior and exterior finishing.
- Repair Mortars:** Non-structural concrete repair.

## PHYSICAL &amp; CHEMICAL PROPERTIES

Property	Specification	Method / Standard
Appearance	White free-flowing powder	Visual Inspection
Polymer Base	VAE Copolymer	-
Solid Content	≥ 98.0%	DIN EN ISO 3251
Ash Content	Max. 13%	ASTM D1347-72
Bulk Density	400 - 550 g/L	DIN EN ISO 60
pH Value	6.0 – 8.0	10% Solution
Particle Size	100% pass 80 mesh	-
MFFT	Approx. 0°C	Film Forming Temp.
Tg (Glass Transition)	Approx. 0°C	DSC

## PACKAGING &amp; STORAGE

**Packaging:** 25kg net weight in paper-plastic composite bags with PE liner.

**Storage:** Store in a cool, dry place below 35°C. Keep away from direct sunlight, moisture, and heat sources.

**Shelf Life:** 6 months. RDP is thermoplastic; please avoid high pressure to prevent caking. Use promptly after opening.

## HEALTH &amp; SAFETY

This product is non-toxic and non-hazardous. However, it may cause dust irritation.

**Protection:** Wear dust masks and gloves during handling.

**Note:** Refer to the Material Safety Data Sheet (MSDS) for detailed safety information.