



# Water-Based Concrete Release Agent

Environmentally friendly release agent for concrete formwork

## Product Description

The Water-Based Concrete Release Agent is a new-generation release product made with advanced polymer emulsion technology. It is odorless, non-toxic, environmentally friendly, and water-dilutable. It provides excellent release performance for concrete formworks, ensuring smooth surfaces, minimal residue, and easy application.

## Performance Metrics (JC/T 949-2020)

Property	Requirement
Release Performance	Smooth release without damage; complete edge integrity; smooth surface; concrete residue $\leq 4.0 \text{ g/m}^2$
Secondary Workability	No adverse impact on secondary finishes; adhesion strength $\geq 0.85$
Effect on Reinforcement Corrosion	Steel reinforcement corrosion area ratio $\leq 0.2$
Extreme Service Temperature	Effective under curing conditions; meets release requirements at test temperature

## Construction Process

- Dilution – For bridges, precast elements, etc., dilute 3–5 times with water. For steel molds and general precast products, dilute 3–5 times. For aluminum molds or large vertical structures, dilute 5–7 times.
- Surface Preparation – Remove dust, rust, or residues from the formwork before applying. Ensure surfaces are smooth and dry.
- Application – Apply a uniform thin coat by spraying, brushing, or rolling. For best results, spray once vertically and once horizontally. Avoid excessive application or pooling.
- Precautions – Stir before use. Apply evenly; avoid streaks or missed spots. If discoloration occurs, reduce dosage or dilution. For white cement or fair-faced concrete, conduct a trial before mass application.

## Packaging & Storage

- Supplied in blue plastic drums, net weight 50 kg/barrel.
- Store in a cool, dry, and ventilated place.
- Avoid freezing or direct sunlight.
- Non-hazardous product.

## Notes

- The release agent should be diluted with clean water before use.
- Do not apply under freezing conditions.
- Ensure proper curing of concrete after formwork removal.