

PRODUCT DATA SHEET

WBR-1 Water-based Resin**Product Description**

WBR-1 water-based resin is a water-based lotion resin binder developed with the latest international emulsification technology. The product itself contains no solvent and is low VOC emissions, composed of particles with a radius of 0.5um, have extremely high stability and good compatibility with cement slurry, which can exert the characteristic of strong adhesion. The product is a self crosslinking resin lotion based on thermal reaction, which can be used under neutral or alkaline conditions. After resin crosslinking, It can make the cement stone have good toughness and high cohesive strength. After resin cross-linking, it has strong permeability, high bonding fastness, and good stability at high and low temperatures, Due to its shear resistance and other characteristics, the cement stone added with this product can have excellent water resistance, heat resistance, and aging resistance.

Characteristics

- WBR-1 is mainly composed of macromolecular surfactant and lotion resin particles.
- Good mechanical stability, stable structure after curing.
- Belongs to a self crosslinking resin based on thermal reaction, with a wide range of temperature applications.
- Good compatibility with various oil well cement and other additives.
- It has the function of assisting in reducing fluid loss and can significantly reduce the dosage of fluid loss agents.
- Normal dosage: 1.0%~6.0% (BWOS).
- Can be added to the latex cement slurry system to improve the acid and sulfur corrosion resistance of the cement slurry system.
- Cement slurry has good stability, strong plasticity, and good workability.
- Slight retarding effect, good interfacial bonding after curing.

Technical Specification

Items	Specification
Appearance	Uniform liquid
Initial consistency (90°C/53.3 MPa/4min), Bc	≤30.0
Time for 40Bc~100Bc, min	≤15.0
Mutation value of thickening curve, Bc	≤10.0
Water loss(90°C/6.9MPa/30min), ml	≤100.0
Free liquid(93 °C), %	≤0.0
Compression strength(90°C/0.1MPa/24h), MPa	≥14.0

Packing, Storage

- Plastic bucket packaging, 25kg/bucket, or packaging according to customer requirements.
- During transportation, it should be stored in a cool and dry place to prevent sunlight and rain, with a storage period of one year.

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