HN-QB2525

Technical Data Sheet

Hydroxyl-functional styrene-acrylic dispersion / Two-component waterborne industrial baking coatings, metal and machinery baking topcoats, and thick-film decorative protective coatings / TDS

01 Product Description

Hydroxyl content on solids: 2.5%. HN-QB2525 is a pure secondary-hydroxyl styrene-acrylic dispersion designed for baking coatings, offering high cost efficiency, long open time, broad compatibility and strong electrolyte stability (passes 5% CaCl2 test). It allows thick-film application (>150 um) with low blistering risk and achieves excellent fullness and gloss even with hydrophobic polyisocyanate hardeners. As ambient drying is relatively slow (typically ~72 hours to build hardness), it is ideally suited for baking environments.

02 Recommended Applications

- Two-component waterborne industrial baking coatings.
- Metal and machinery baking topcoats.
- Thick-film (>150 um) protective coatings with low blistering risk.
- High-gloss, high-fullness decorative baking finishes.

03 Technical Data

Item	Specification
Appearance	Slightly blue translucent dispersion
Solid Content	46.0 +/- 1.0%
Viscosity (Brookfield, 25 deg C)	1000-3000 mPa.s
pH	6.0-8.0
Hydroxyl Content on Solids	2.5 +/- 0.1%
Hydroxyl Value on Solids	Approx. 82.5 +/- 3 mg KOH/g
Acid Value on Solids	8-12 mg KOH/g
Stability in 5% CaCl2 Aqueous Solution	Pass
Curing & Application Guidance	Pure secondary-OH dispersion; slow ambient cure (~72 h), ideal for baking. Thick coats >150 um resist blistering; high gloss and fullness with hydrophobic isocyanates.

04 Packaging, Storage and Transportation

- Standard packages: 200 kg, 50 kg or 25 kg drums, or customized packaging as agreed.
- Store in a ventilated, dry warehouse and avoid direct sunlight.
- Recommended storage and transportation temperature: 5-30°C.
- Shelf life is six months; product may still be used after inspection if no abnormal change is found.

Safety: Water-based polymer dispersion; not readily flammable under normal conditions. In case of eye contact, rinse immediately with plenty of water.