N-200A HDI-Based Aliphatic Polyisocyanate Hardener

Higher NCO · Clear topcoats and high-quality finishes

An HDI-based aliphatic polyisocyanate hardener used as a Part A raw material. Crosslink with a compatible resin formulation. N200 designates a finished topcoat.



Hardener packaging

200 kg per drum of hardener. Confirm net weight from the label and delivery documents.

The 200 kg figure is for the hardener alone. Validate mix ratio, pot life and recoat conditions for the selected resin, temperature and process.

Technical data and acceptance

Source performance specifications: NCO, viscosity at 25°C, color, monomeric HDI and solids. Density and equivalent are approximate.

Chemical type HDI-based isocyanurate polyisocyanate
Appearance Colorless to slightly yellow transparent liquid
NCO content by weight 20.0%–21.0%
Equivalent (source reference) Approx. 200; unit unconfirmed
Viscosity at 25°C 500–800 mPa·s
Density at 25°C Approximately 1.09 g/cm³
Color Platinum-cobalt ≤40
Monomeric HDI ≤0.10%
Solids content 99.9%

Data and acceptance

The source gives about 200 without a unit. Confirm the unit and basis before dosing. Verify batch NCO and resin equivalents. Use agreed specifications, batch COA and contract for acceptance.

Applications and formulation

Evaluate N-200A for clear finishes on tiles, stone, wood and floors or for industrial topcoats. If flexibility takes priority, compare N-500A and test the full formulation.

GD-1422

Candidate resin for clear topcoats and high-solids industrial finishes.

GD-1520

Candidate resin for a longer working window or large areas. Measure pot life in the formulation.

Weather-resistant pigment pastes

Validate compatibility and film performance in the colored formulation.

Validate before use

Validate compatibility, reactive equivalents, pot life, surface and through-drying, substrate adhesion, mechanical properties, weathering and chemical resistance. Trial the substrate and application method.

This hardener TDS specifies no fixed A:B mass ratio, pot life, coverage, film thickness, coat count, recoat interval, coating service life or warranty period.

Packaging, storage and safety

Packaging

The source lists 1, 2, 10, 20 and 200 kg metal containers of hardener alone. The standard industrial drum is 200 kg. Confirm the size and net weight from the label and delivery documents.

Storage and shelf life

Keep sealed, cool, dry and ventilated, away from heat and incompatible materials. The Chinese edition states six months from manufacture at 25°C, unopened. The source omits the term. Confirm against the label and batch documents.

Dilution and compatibility

Use compatible polyurethane-grade esters, ketones or aromatic hydrocarbons with less than 0.05% water and no reactive groups such as hydroxyl or amino groups. Aliphatic hydrocarbons are unsuitable. Test storage stability. Keep diluted solids at or above 60% to limit haze or sediment on storage.

Safe handling

Exclude moisture. Read the product SDS before handling and follow its ventilation and eye, hand and respiratory protection requirements.

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