Industrial Coatings

Technical Data Sheet

Basonat® HA 3000

(old: Basonat® HA 300)



Product Description

Basonat[®] HA 3000 is a solvent-free, low viscous polyfunctional isocyanate for lightfast and weather-resistant, two-pack polyurethane coatings.

Key Features & Benefits

- Lightfast, weather-resistant high solids coatings
- Broad choice of solvents

Chemical Composition

Allophanate-modified polyisocyanate based on isocyanurated hexamethylene diisocyanate

Properties

Typical Characteristics

These typical values should not be interpreted as specifications.

The NCO equivalent weight indicates the amount of Basonat[®] polyisocyanate as supplied containing 1 Mol of active NCO.

Crosslinking

Used to crosslink most hydroxy acrylic resins such as Joncryl[®] or Luhydran[®] acrylics.

Diluent tolerance

Can be diluted with esters (butyl acetate), ketones (methyl ethyl ketone), glycolether acetates (methoxypropyl acetate) or with aromatic hydrocarbons (Solvesso¹ 100, xylene).

If diluted to a polyisocyanate fraction of less than 40%, turbidity, flocculation, and/or sedimentation may occur during storage. Storage trials should always be conducted.

Applications

Basonat[®] HA 3000 is used to formulate particularly lightfast and weather-resistant high solids coatings. It is solvent free and allows for a broad range of solvent choices. For example in furniture coatings, when less volatile solvents would retard drying excessively, highly volatile solvents can be chosen. Also, drying may be catalytically accelerated with, for example, dibutyl tin dilaurate.

Basonat® HA 3000 is recommended for applications such as:

- Interior/exterior general industrial metal coating applications
- Interior/exterior plastic component coating applications
- Interior/exterior wood coatings for floor, furniture, or millwork applications
- Interior/exterior Automotive OEM or refinish applications

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¹Registered trademark of ExxonMobil Corporation.

Processing

The theoretical equivalent amount of polyisocyanate required for crosslinking is computed using the

formula below:

0.075 x [OH number] x [% non-volatile fraction of OH component]

[% NCO]

Example

Basonat[®] HA 3000 and Joncryl[®] 922

Joncryl® 922

OH number 140 mg KOH/g polyol on solids

Non-volatile fraction, Nv 80% Basonat® HA 3000 NCO content 19.5%

 $\frac{0.075 \times 140 \times 80}{19.5} = 43.1$

Basonat[®] HA 3000 dosage rate for 100g Joncryl[®] 922 as supplied = 43.1g.

Solvents, pigments, or extenders, etc. used should be free from compounds containing active hydrogen groups such as water, alcohols, or amines.

A water content of less than 500 ppm in solvents and binders in two-component polyurethane coatings is acceptable.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet for Basonat[®] HA 3000.

Storage

Properly stored and protected from humidity, the original unopened container of Basonat[®] HA 3000 should have a shelf life of at least 6 months. Store at temperatures between 10 - 30°C (50 - 86°F).

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Important

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