



TERACURE® N-32

Aliphatic Polyisocyanate Hardener
Based On Hexamethylene Diisocyanate Biuret (HDI)

TYPICAL CHARACTERISTICS

Appearance	Clear Liquid
NCO (As Supplied) %	23.0 ± 1.0
Weight Per Gallon, Lbs @25°C	9.32
Flash Point (P-M), °C	>120
Viscosity @25°C, mPa@s	3000 ± 1500
Equivalent Weight, Avg. (As Supplied)	179
Color, Hazen (APHA)	≤ 40
Hexamethylene Diisocyanate Monomer (HDI), %	< 0.3
Solids Content, Approx, %	100
Bulk Density, kg/m @25°C, Approx	1120

COMPATIBILITY

Teracure® N-32 is a medium-viscosity aliphatic polyisocyanate hardener based on Hexamethylene Diisocyanate Biuret (HDI homopolymer). Teracure® N-32 is designed for use in 2K polyurethane and polyaspartic coatings systems. Teracure® N-32 is effective with hydroxyl-functional polyesters, polyethers, and acrylics in 2K polyurethanes.

Teracure® N-32 is soluble in esters (such as butyl acetate and propylene glycol monomethyl ether acetate); ketones (such as acetone, methyl ethyl ketone, methyl isobutyl ketone, cyclohexanone); aromatic hydrocarbons (such as xylene, toluene, Aromatic 100); and mixtures of these solvents.

In blends of solvents and other materials with Teracure® N-32, contaminants such as moisture and reactive groups (including hydroxyl or amino groups) must be avoided. Use only solvents that contain no more than 0.05% water as a maximum. In all cases, the blends should be carefully evaluated and tested for stability in storage. Do not dilute Teracure® N-32 with solvents below a solids content of 35% by weight. Do not use aliphatic hydrocarbon solvents with Teracure® N-32.

Teracure® N-32 can be blended with aliphatic polyisocyanates and aromatic polyisocyanates, but in each case the compatibility of any combination must be thoroughly tested for stability and evaluated before use.

APPLICATIONS

Teracure® N-32 is recommended as a hardener for use in combination with polyester or acrylic hydroxyl-functional resins to produce clear and pigmented finishes having good weather

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resistance and resistance to solvents and other chemicals. These coatings systems also provide excellent gloss retention and good abrasion resistance. Teracure® N-32 can be reacted with polyaspartic amines for direct-to-metal applications. Teracure® N-32 is also used in polyaspartic concrete coatings, featuring fast cure and high film build for self-leveling systems. The performance attributes of properly formulated coatings based on Teracure® N-32 include excellent light-fastness, outdoor durability, mechanical properties, and chemical resistance. These coatings also exhibit good gloss and color retention. The pot life and working time of coatings based on Teracure® N-32 should be evaluated under various conditions before commercial use.

FEATURES

Hardener for Both Polyurethanes and Polyaspartics, Clear and Pigmented
 Outstanding Resistance to Solvents and Other Chemicals
 Excellent Weatherability, Durability, Abrasion Resistance, Mechanical Properties and Gloss Retention
 Compatible with a Variety of Other Isocyanates
 Preferred for Use with Polyacrylate Or Polyester Polyols

PROUDCT USES (For professional use only. Not intended for retail sales.)

Teracure® N-32 must be tested in advance in both laboratory and hands-on trials before use to determine the best formulation and suitability for use and application. Pflaumer’s technical service center personnel are available to answer formulating questions. Recommended starter formulations can be designed upon request for specific applications.

OTHER PFLAUMER PRODUCTS FOR THE FORMULATOR

Pflaumer offers other products for formulating 2K coatings:

Terachem ® 53-Colorants	37 Ready-to-use pigment dispersions for 2K polyurethanes and polyaspartics, including color packs for on-site use
Teracure ® Aliphatic Polyisocyanates	Complete line of HDI-based trimer isocyanates
Teraspartic ®Polyaspartic Amines	For slow, medium, and fast curing
Terachem ®53-2242	Anti-sag additive for 2K polyaspartics
Terachem ®53-2371	Aluminum Oxide Nano-Dispersion for 2K polyaspartics
Tallicin ®1500	Flow and leveling modifier
Tallicin ®3000	Pot life extender for trimer-type isocyanates used in 2K polyurethanes
Tallicin ®4000	Bubble-release, agent and flow/leveling modifier for high-solids polyurethanes
Tallicin ® 4040	Bubble-release, flow and leveling modifier for solvent-free polyaspartics and polyurethanes

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Tallicin ®4600	Stabilized Tin Catalyst for Polyurethanes
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SAFETY, STORAGE, AND HANDLING

Consult MSDS before use. Store Teracure® N-32 in tightly sealed containers. Prevent contact with moisture and excess humidity. Once opened, any remaining Teracure® N-32 in the container is best stored under dry nitrogen blanketing. Store, transfer, and handle under a nitrogen blanket. Replace damaged gaskets on drums and totes. Keep storage temperatures at 15°C - 40°C (59°F - 104°F).

Shelf life of Teracure® N-32 is 9 months from date product is shipped by Pflaumer and then maintained in original closed containers and stored in proper storage conditions at 25°C (75°F). If or when repackaging, use containers that will prevent moisture contamination. Avoid containers made with polyethylene, polystyrene, copper or tin.

CONTAINER SIZES

55 gallon drums (225 Kg/496 Lb)

275 gallon totes (1125 Kg/2480 Lb)

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