



## TERACURE® N-215

Medium-Viscosity Aliphatic Polyisocyanate Hardener Based on Hexamethylene Diisocyanate (HDI)

### TYPICAL CHARACTERISTICS

Appearance .	Clear Liquid
NCO (As Supplied), %	22.0 ± 0.5
Weight Per Gallon, Lbs @25°C	9.54
Flash Point (CC), °C	>120
Viscosity @25°C, mPa·s	4500 ± 500
Equivalent Weight, Avg., g (As Supplied)	191
Color, Hazen (APHA)	≤ 40
Hexamethylene Diisocyanate Monomer (HDI), %	< 0.5
Solids Content, Approx, %	100
Bulk Density, kg/m <sup>3</sup> @25°C, Approx	1160

### COMPATIBILITY

Teracure® N-215 is a medium-viscosity aliphatic polyisocyanate hardener based on Hexamethylene Diisocyanate Trimer (HDI homopolymer). N-215 is designed for use as a hardener with 2K polyurethane and polyaspartic coatings systems.

Teracure® N-215 is effective with hydroxyl-functional polyesters, polyethers, and acrylics in 2K polyurethane coatings. Teracure® N-215 is soluble in esters (such as butyl acetate and propylene glycol monomethyl ether acetate); in ketones (such as acetone, methyl ethyl ketone, methyl isobutyl ketone, cyclohexanone); and aromatic hydrocarbons (such as xylene, toluene, Aromatic 100 or Solvesso 100); and mixtures of these solvents.

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In blends of solvents and other materials with Teracure® N-215, contaminants such as moisture and reactive groups (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-215 with solvents below a solids content of 40% by weight. Do not use aliphatic hydrocarbon solvents with Teracure® N-215.

Teracure® N-215 can be blended with aliphatic polyisocyanates and aromatic polyisocyanates, but in each case the compatibility must be tested for stability.

## **APPLICATIONS**

Teracure® N-215 is a medium-viscosity hardener, usable in high-solids polyurethane and polyaspartic coatings systems. These coatings systems based on N-215 can be formulated to provide high-solids air-dry or forced-dry coatings for OEM automotive coatings, auto refinishes, general transportation coatings, and industrial metal coatings, as well as coatings for plastics, concrete and composites.

Teracure® N-215 can also be reacted with polyaspartic amines for direct-to-metal applications. N-215 is also used in polyaspartic concrete coatings featuring fast cure, excellent adhesion, and high film-build for self-leveling systems.

The performance attributes of properly formulated coatings based on Teracure® N-215 include excellent light-fastness, outdoor durability, mechanical properties, and chemical resistance. Coatings formulated with N-215 also exhibit very high gloss and color retention.

## **FEATURES**

Medium Viscosity @ 4500 ± 500 mPa·s

Hardener for Both Polyurethanes and Polyaspartics

Outstanding Resistance to Solvents and Other Chemicals

Excellent Weatherability, Durability, Color Retention and Gloss Retention

Outstanding Mechanical Properties and Abrasion Resistance

Compatible with a Variety of other Isocyanates

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

Teracure® N-215 must be tested in advance in both laboratory and hands-on trials before commercial 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 are available 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® 53-2371	Aluminum Oxide Nano-Dispersion for 2K polyaspartics
Tallicin® 1500	Flow and leveling modifier
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
Tallicin® 4600	Stabilized Tin Catalyst for Polyurethanes

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## **SAFETY, STORAGE, AND HANDLING**

Consult SDS before use. Store Teracure® N-215 in tightly sealed containers. Prevent contact with moisture and excess humidity. Once opened, any remaining Teracure® N-215 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-215 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 repackaging, use containers that will prevent moisture contamination. Avoid containers made with polyethylene, polystyrene, copper or tin.

## **CONTAINER SIZES**

275 Gallon Totes (2,535 Lb/1,150 Kg)

55 Gallon Drums (496 Lb/225 Kg)

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