



TERASPARTIC® 277

Medium Curing Speed Amine-Functional Resin for Polyaspartic, Polyurea, and Polyurethane Coatings

TYPICAL CHARACTERISTICS

Appearance	Colorless to Pale Yellow Liquid
Odor	Mild
Weight Per Gallon, Lbs @25°C	8.8
Flash Point, °C (PMCC)	145
Viscosity @25°C, mPa.s	900 - 2000
Equivalent Weight, Avg. (As Supplied)	277

COMPATIBILITY

Teraspartic® 277 is an amine-functional resin whose chemical structure provides a unique reactivity with polyisocyanates. Polyaspartic coatings can be produced with reactivity and curing speeds from about 15 minutes to two hours or more, depending on ambient and substrate temperatures. Higher temperatures speed the curing of a coating, while lower temperatures result in a slower curing speed. Higher levels of humidity also increase the curing speed. Teraspartic® 277 can be used by itself or blended with other polyaspartic resins, such as Teraspartic® 292 and Teraspartic® 230. The formulator can blend Teraspartic® 277 with other hydroxy-functional acrylic resins to achieve special application and performance characteristics in both clear and pigmented systems.

Formulating with Terachem® 53-Polyaspartic Colorants can achieve bright, long-lasting, and appealing colors for a complete line of coatings systems for the applicator.

APPLICATIONS

Teraspartic® 277 is designed for use in high-performance, fast-cure, low VOC, low-odor coatings, both clear and pigmented. Applications for polyaspartic coatings include use on concrete, metal, and wood, with and without primer, when properly formulated. Excellent intercoat adhesion also allows application on epoxies and polyurethanes.

Another outstanding attribute of polyaspartic coatings is for one-coat end uses that are labor efficient for the applicator. Polyaspartic coatings are easy to apply, durable against weathering, non-yellowing, and provide excellent gloss retention. Polyaspartic coatings can be modified and formulated to meet specific application requirements, including cure-time, viscosity, film-build, and excellent corrosion resistance.

FEATURES

Fast Cure, High-Solids, Low Odor

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For Application on Concrete, Metal, and Wood
 Easy to Apply via squeegee, roller or airless sprayer
 For Topcoat Application Over Epoxies, Polyurethanes, and Other Coatings Systems
 Excellent Durability and Gloss Retention
 For Clears and Pigmented Systems in combination with Terachem® 53-Polyaspartic Colorants
 Can be Blended with Other Hydroxy-Functional Acrylic Resins

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

Teraspartic® 277 must be tested in both your laboratory and later in field trials before commercial use to determine the best formulation and suitability for use and application. Pflaumer’s technical service 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 ®53-2242	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
Tallicin ®4600	Stabilized Tin Catalyst for Polyurethanes

SAFETY, STORAGE, AND HANDLING

Consult MSDS before use. Store Teraspartic® 277 in tightly sealed containers. Prevent contact with moisture and excess humidity. Once opened, any remaining Teraspartic® 277 in the container is best stored under dry nitrogen blanketing. Store, transfer, and handle under a nitrogen blanket. Replace damaged gaskets on drums or totes. Keep storage temperatures at 0°C - 40°C (32°F - 104°F).

Shelf life of Teraspartic® 277 is 6 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.

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CONTAINER SIZES

5 gallon pails (40 Lb/18 Kg)

55 gallon drums (441 Lb/200 Kg)

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