



TALLICIN® EXP E-26

Castor Oil Polyol Emulsion for 3-Component Polyurethane Polymer Concrete

TYPICAL CHARACTERISTICS

Appearance	Creamy Liquid Emulsion
Odor	Low Odor, Characteristic
Weight Per Gallon, Lbs @25°C	8.07
Solubility in Water	Miscible
Hydroxyl Content (% by Weight, As Supplied)	2.7 - 3.3
Flash Point (P-M)	>100°C.
Equivalent Weight, Avg. (Ca., As Supplied)	425

COMPATIBILITY

Tallicin® E-26, a formulated emulsion of castor oil, is an example of the technology developed by Pflaumer R&D especially for polyurethane polymer concrete. The product can be used by itself as Part A, or can be modified with various additives to achieve special performance characteristics. Pflaumer has developed unique technology, based on Tallicin® E-26 as Part A, for urethane polymer concrete floor coatings applied to concrete. Pflaumer chemists have applied urethane polymer concrete formulated with Tallicin® E-26 through trained applicators around the country with excellent results. In addition, we have used our own chemical manufacturing facility as a test site with excellent results in appearance, durability, and maintenance. Tallicin® E-26 is suitable for the formulation of coatings and polymer mortars for a variety of applications. Pflaumer does not recommend modification of Tallicin® E-26 with other polyols. In addition, functional additives should be used in formulating only after thorough testing, including field trials, for compatibility and performance. Tallicin® E-26 should be used only with Teracure® M-60 as the hardener. Do not dilute with solvents or water.

APPLICATIONS

Polyurethane polymer concrete based on Tallicin® E-26 is designed for areas where cleanliness and long-lasting durability are critical. Urethane polymer concrete flooring systems formulated with Tallicin® E-26 provide excellent performance characteristics including resistance to impact, abrasion, aggressive chemicals, acid attack, and thermal shock. Urethane polymer concrete based on Tallicin® E-26 is also odorless, non-porous, relatively non-toxic, essentially zero-VOC, and USDA accepted for use in food plant operations making it a perfect solution for food and beverage facilities, chemical plants, and health care centers with extreme hygienic requirements. These conditions require frequent and intensive steam, or hot water, and

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chemically aggressive cleaning which can be tolerated by polymer concrete based on Tallicin® E-26.

Urethane polymer concrete coatings based on Tallicin® E-26 provide the following advantages:

- Chemical-Resistant Non-Porous Concrete Floor Surfacing up to 1-inch Thick
- One-step Application – No Top Coat Required
- Offers Performance Improvements
- No BPA Compared with Epoxies

Trowel grade heavy duty, solid color cementitious urethane floor mortar (1/4" to 3/8" or thicker) prepared with Tallicin® E-26 can be applied with slightly textured non-slip finish for medium to heavy-duty use. Advantages include a temperature range of 40°F to live steam above 240°F; bond strength in excess of concrete; urethane polymer concrete will not wear smooth in normal wear, becoming a slip hazard. Urethane polymer concrete has a similar coefficient of thermal expansion as traditional concrete allowing movement of the substrate through normal thermal cycling.

Pflaumer has developed a full range of colors for Polyurethane Polymer Concrete, including light to medium to dark grey, tile red, and safety yellow, to name a few. Other colors include:

- Red
- Grey
- Canary Yellow
- Light Grey
- Pearl White
- Tan
- White
- Dark Grey
- Green
- Blue
- Brown
- Burnt Orange

Urethane Polymer Concrete formulated with Tallicin® E-26 and Teracure® M-60 resists a wide range of organic and inorganic acids, alkalis, amines, salts, and solvents. Freshly applied Urethane Polymer Concrete formulated with Pflaumer Part A and Part B can be open for foot traffic in 10-12 hours, cutting downtime to a minimum. A minimum of 5 days is required for curing to achieve a solvent/chemical-resistant floor. A cove base can be added to protect vertical surfaces for ease of maintenance. The surface is relatively pore-free, non-absorbent, and easy to clean.

Areas of use for Urethane Polymer Concrete include:

- Commercial & Institutional
- Cafeterias/restaurants
- Schools/education facilities

Health Care

- Animal holding facilities
- Veterinary clinics
- Health care facilities

Industrial & Manufacturing

- Beverage processing
- Manufacturing, heavy
- Manufacturing, light
- Pharmaceutical production
- Chemical processing

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- Food processing
- Common Areas
- Aisle ways/corridors
 - Kitchens
 - Laboratories
 - Chemical areas
 - Clean rooms
 - Cold storage
 - Warehouse/distribution

FEATURES

- Built-in Gloss – 85 - 98° – is available
- One-Step Installation
- Water-Based
- 3-Component System
- Green Chemistry
- Zero VOC
- No Odor
- Up to One-inch Thick
- Can Be Applied at <40°F
- Can Be Steam Cleaned
- Wide Range of Colors
- Easy to Clean with Solvents or Detergents

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

Tallicin® E-26 must be tested in advance in both laboratory and in field trials before use to determine the best formulation and suitability for use and application. Recommended starter formulations are available upon request for specific applications.

SAFETY, STORAGE, AND HANDLING

Store Tallicin® E-26 in tightly sealed containers. Mix before use to eliminate or reduce separation of the emulsion. Keep storage temperatures above freezing. Shelf life of product is 6 months from date product is received in original closed containers and stored at room temperature. Consult MSDS before use.

CONTAINER SIZES

5 gallon pails, 55 gallon drums, and 275 gallon totes

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