

Single Component Urethane

PRODUCT DESCRIPTION

Res-Tek ISO-Guard™ ISO-105 is a high performance single component resin, using a proprietary blend of polymers for a broad range of industrial flooring applications.

ISO-105 cures to a gloss finish and has high abrasion resistance.

TYPICAL USES

ISO-105 is a single component urethane topcoat for areas requiring high abrasion resistance and is used in various Res-Tek hybrid systems.

A single component urethane is recommended in manufacturing plants, distribution warehouses, automotive facilities, facility maintenance rooms, aircraft hangars, restrooms, offices, etc.

PHYSICAL CHARACTERISTICS

Mix Ratio: Single component

Viscosity (ASTM D2196 cPs): 325 @ 25°C

Density (ASTM D1475, lbs/gal): 8.5

Tensile Strength (ASTM D638, psi): 5,000

Working Time: @ 75°F = 25 min.

Cure Time (75° F, 55% RH): 12 hrs. light foot traffic, 24 hrs. full service, 14 days full chemical resistance.

Shelf Life: 1 year, stored at 73°F

Volume Solids (%): 60%

VOC (g/l): 396

Flashpoint (ASTM D3278): 75°F

Shore D Hardness (ASTM D2240): 85

Taber Abrasion (ASTM D4060): 35

DOT Classification: UN 1866 Resin solution, flammable

PROPERTIES

- Excellent abrasion resistance, and resistance to staining and chemicals, such as acids, alkalis, and solvents
- Excellent color stability
- High abrasion resistance
- Seamless
- Nonporous
- Durable and low maintenance
- Gloss finish appearance

RES-TEK INC.

110 Riverside Drive SW
Cartersville, Georgia 30120

P. 888.ResTek1 (888.737.8351)

www.Res-Tek.net



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SURFACE PREPARATION

When applying ISO-105, it is necessary to first sand the previous coat with 60 grit sandpaper prior to application. If following a different application schedule, please contact your Res-Tek representative.

APPLICATION OF MATERIALS

Size the batches and mix according to manufacturer's instructions. The entire batch should be laid using a squeegee and roll technique, working quickly and diligently. Premix for three minutes with a slow speed drill. Once opened this material cannot be resealed for later use.

If pigment is required, premix pigment before adding to ISO-105. When adding pigment, use a separate mixing container, add ISO-105 to the mixing container, then add pigment. Use a variable speed drill equipped with a Jiffy mixing blade; mix on low speed until evenly dispersed. Once fully blended, mix a minimum of two minutes. Scrape sides of mixing bucket with paint stick or spatula to help ensure thorough blending.

Pigment loading is 1 pint per gallon. When loading white, yellow, or red, loading is 1 quart per gallon.

Apply ISO-105 to floor immediately by using a 9" or 18" wide 3/8" nap paint roller at a rate of 400 sq. feet/gallon. Lightly cross roll perpendicular to the initial spread to a uniform finish. Lightly back roll parallel to the initial spread direction using the 18" roller. Use a brush in areas inaccessible to a roller.

Application temperature should be between 60° F and 90° F. Substrate temperature must be a minimum of 5° F above dew point. This product should be applied between 25%-80% relative humidity. Application of the coating above the recommended dry film thickness or at relative humidity above 80% may cause bubbles and or micro-bubbles to form in the coating. Application in relative humidity below 25% will inhibit curing.

Use xylene, acetone, etc. for cleaning tools and equipment soon after use. Do not use solvents on hands or other parts of body. Clean hands and other exposed areas with soap and water.

STANDARD PACKAGING

1 gallon kit (1 gallon pail, single component)

Pigment (EPO-LP): 1 quart can. Mix 1 pint per gallon. Mix 1 quart per gallon for white, yellow, or red.

STORAGE CONDITIONS

Store material in a cool and dry place out of direct sunlight. Material should be stored between 70° F and 90° F. Do not store near open flame or ignition source. Once opened, this material cannot be re-sealed for later use. Read and understand all product labels and Safety Data Sheets (SDS) prior to use.

CAUTION

Workers should wear protective clothing, eye protection, and impermeable gloves. If allowable exposure limits are exceeded, organic vapor respirators should be worn. All on-site personnel should become familiar with the SDS and appropriate system specification in order to increase hazard awareness.

WARRANTY

Res-Tek Inc. warrants that materials shipped to buyers are free of any defects in material or workmanship according to Res-Tek's published data if used in accordance with Res-Tek's specified application procedure. Res-Tek Inc. shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended, and in accordance with Res-Tek's application guidelines. Res-Tek Inc. has no responsibility for application and processing of products.

This product is sold by weight, not by volume. Product properties require that containers provided are not completely filled. See price sheet for actual container weight and volume.

Note: This product data sheet was prepared as a general guide only. Please contact your local Res-Tek Representative or our Technical Service department for assistance prior to any application.

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