

TECHNICAL DATA SHEET

POLYTEX 41 BAR TOP EPOXY COATING—HEAT RESISTANT

Description:

Polytex 41 is a premium, two-component, 100% solids, high-build urethane modified epoxy coating that is ideal for bar and tabletops.

Uses:

Used for coating tabletops and bar tops.

EXOTHERMIC DATA	POLYTEX 41
Brookfield viscosity, cps, 25 °C	6,200
Gel Time, minutes (200-g mass @ 25°C)	45
Peak Exothermic temperature , °C	152
Pot Life, mins (200-g mass @ 25°C)	30

COATING PROPERTIES, 20 MIL FILM

Drying time, hr., Set to touch	9
Thru-dry, hr.	13

PROPERTIES OF CURED 1/8" CASTINGS¹

Izod impact strength, ft-lb/in	0.98
Shore D hardness, 0-10 sec	73-76
Tensile Strength, psi	5,800
Ultimate elongation, %	6
Flexural strength, psi	10,500
Flexural modulus, psi	320,000
Compressive strength ² , psi, at yield	4,200
At failure	29,600
Taber abrasion (ASTM D-4060-84 C-17 WHEEL , 1000G LOAD, 1000 CYCLES)	47.8 mg loss

¹Cured 7 days, ~25°C

Coverage:

One Gallon kit will cover approximately 20-30 square feet per coat.

<u>Note</u>: Pouring a thickness of > 1/16 inch may cause excessive bubbles, yellowing, and distortions in surface. Use multiple coats to achieve desired thickness.

Colors:

Universal Paint colorants can be added if they are water-based and not oil based.

Surface Preparation:

For best results, the surface to be covered must be dry and free of dust, wax, grease, or oil. Surfaces should be sealed. For wood, apply 2-3 coats of a lacquer sanding sealer, sanding lightly between coats. For other surfaces, like paper, use our SEAL COAT. The item to be coated should be about 2 inches above the work area so that the extra mixture will drip off the item. It is a good idea to put a newspaper or a drop cloth under the item to catch the drips. Apply tape paste wax now to prepare the back surface of the project for easy drip removal.

Measuring:

Mix only the amount of epoxy that you need at one time. Unused resin and hardener should be left in original containers. Measure 1 part Resin A to 1 part Hardener B. Measure exact amounts of both resin and hardener in separate mixing cups. Do not add more hardener than resin, as this will cause the finished coating to remain sticky. Inaccurate measuring will cause epoxy surface to remain soft or sticky "spots" on the epoxy surface.

Tools:

Mixing container- Should have smooth flat bottom and be clean and dust free.

Stick- Must have flat, straight edge to ensure thorough mixing.

Brush- Sometimes a small brush is needed for coating edges of crevices.

Surgical Gloves (powder-free) or Notched Spreader or Squeegee – Needed for product application

Mixing and Application:

Warm up the Polytex 41 Resin and Hardener to 75°- 80°F. This will improve the flow characteristics and bubble release. In a dry, clean container, mix equal parts of the resin (part A) with the hardener (part B). Be sure to scrape the sides and bottoms of mixing container while mixing. Mix for 3-4 minutes using a paint paddle. After mixing, IMMEDIATELY pour material onto the bar top or tabletop. Spread with notched trowel, notched spreader, notched squeegee, or surgical powder-free gloves.

Note: Larger batches cure faster due to the chemical nature of this product. We do not recommend mixing more than a 1 gallon mixture at a time.

Bubble Release

Wait 15-20 minutes then lightly pass a lit propane torch over the surface approximately 4-6 inches over the surface until all bubbles are gone. The heat from the propane torch helps facilitate bubble release while the flame from the torch provides a carbon dioxide reaction popping the bubbles. This will help ensure a glass like finish. Torching too soon can trap the small bubbles within the material. Do not over torch. Drips may be sanded off after the item has cured Note: Do not use other "similar" epoxies in conjunction with Polytex 41. Using other "similar" materials will decrease the heat resistance of the Polytex 41.

Drying Time:

Polytex 41 should be dry to touch in about 8-10 hours. Wait 24-48 hours before places objects on the surface. Wait 7 days before placing hot objects on surface to allow Polytex 41 to reach its maximum cure. If a ring is left on the surface from a hot cup or plate, allow 4-6 hours for ring to disappear on its own. If ring is left within 2-7 days after product application and does not disappear completely, wave a hot hair dryer over surface for approximately 1-2 minutes. The ring should disappear immediately.

One coat is usually all that is needed to capture a glossy shine. Two or more coats may be applied without damaging the first coat. Polytex is recommended for interior use only.

Limitations:

Polytex should be stored in a dry place between 75°-80°F and out of the reach of children. Resin and hardener should not be left in an open container. Polytex 41 should be used in a room where the humidity is under 60% and temperature is between 60°-85°F. This product should be used within one year of purchase.

For interior use only

Clean Up:

Use Acetone to clean up Polytex while it is in its liquid state. After Polytex XI has been cured, it may be removed by sanding or a paint stripper. It is advisable to clean immediately after use.

Mixing and Surface Prep:

Always use the recommended mix ratio for the system. Do not deviate in an attempt to speed up or slow down gel time. Mix together thoroughly, scraping sides and bottom of mixing container, until no streaks or striations are visible, then use immediately. Use only clean dry tools for mixing and applying. Do not mix or apply below 60°F. All surfaces must be clean, dry, and free of any surface contamination. Molds and patterns should be treated with release or parting agents.

Storage and crystallization:

Store between 60-90°F in a dry place. After use, tightly reseal all containers and store products on a raised surface during cold weather and avoid storing near outside walls or doors. If available, purge with dry nitrogen to preserve color and minimize moisture contamination. Do not allow to freeze during winter storage. Do not use material with any signs of crystallization such as solid chunks, grainy texture or white color. Crystallization can be reversed by heating the material to 125-140°F, and stirring occasionally, until all crystals dissolve.

Safety Handling:

Wear protective gloves, clothing, and eye/face protection. Use only outdoors or in a well-ventilated area. Avoid contact to the skin and eyes. Avoid breathing dust, fumes, gas mist, vapors and spray. Wash hands thoroughly after handling. Take off contaminated clothing and wash before reuse. These products may cause skin and respiratory allergic reactions. Consult product Safety Data Sheets for complete precautions for use of this product.

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