



Product Information

Bar Top Epoxy Coating – Heat Resistant

Polytex 41

Description:

Polytex 41 is a premium, two component, 100% solids, high-build epoxy coating.

Uses:

Polytex 41 is a heat resistant coating used for tabletops and bar tops.

Coverage:

Coverage for pour coat (1/16 inch)

1 oz of Polytex will cover 27 sq. inches
½ pint kit will cover approx. 2 sq feet
Pint kit will cover approx 4 sq feet
Quart Kit will cover approx 8 sq feet
Gallon kit will cover approx 35 sq feet

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

Colors:

Universal Paint colorants can be added as long as they are water-based and not oil based

Packaging:

1 Gallon Kits (2 – 1/2g Bottles)
2-Gallon Kits (2 – 1g Bottles)
110 Gallon Kits (2 – 55g Drums)

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 Polytex 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 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 surgical gloves or squeegee.

Note: Larger batches cure faster due to the chemical nature of this product. We do not recommend mixing more than a ½ gallon mixture at a time.

Bubble Release

Wait 15-20 minutes then lightly pass a lit propane torch over the surface approximately 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 41 has been cured, it may be removed by sanding or a paint stripper. It is advisable to clean immediately after use.

Warranty

B.D. Classic Enterprises guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. B.D. Classic makes no other warranty, expressed or implied, and all warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product. Manufacturer shall not be liable for material used outside of its shelf life. For product dating, please refer to the batch number on the product or contact B.D. Classic.

Technical Data:

<u>Exothermic data</u>	
Brookfield viscosity, cps, 25 °C	8000
Gel Time, minutes (200-g mass)	45
Peak Exothermic temperature , C°	152
Time to peak temperature	54
<u>Coating Properties, 6 mil film</u>	
Drying time, hr., Set to touch	3.7
Surface- Dry	5.5
Thru-dry	9.5
<u>Properties of Cured 1/8 inch castings</u>	
Izod impact strength, ft-lb/in	0.98
Dynatup impact, total energy, in-lb	32
Shore D hardness, 0-10 sec	85-87
Tensile Strength, psi	6,200
Ultimate elongation, %	6.5
Flexural strength, psi	10,500
Flexural modulus, psi	320,000
HDT, °C, 264-psi load	40
%Weight gain, 24 hr water boil	-0.3
3 hr acetone boil	
Compressive strength, psi, at yield	4,200
At failure	29,600
Cured 7 days, ~25°C	
1 inch cylinders, ½ inch diameter	

