Polytek® Liquid Mold Rubbers for Concrete Casting, Texturing & Stamping
Discover the Flexibility of Liquid Mold Rubbers for Concrete Casting, Texturing & Stamping

Polytek Development Corp.

Do you have questions for the Polytek Technical Support Team?
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Poly 74-45 Liquid Polyurethane Rubber was used to make a form liner to cast this ~20-ft decorative concrete panel.
Cast Stone Veneer

For high-volume veneer stone production, use Polytek room-temperature curing, liquid polyurethane or silicone mold rubbers. These mold rubbers capture excellent surface detail, offer exceptional dimensional stability and have unmatched lifetime and durability compared to hot melt and polypropylene systems. Polyurethane and silicone rubber molds can be completed in a much shorter time frame (~16-hour demold times) compared to latex rubber molds. When properly maintained, these molds will last for years and produce thousands of stones.

**RECOMMENDED PRODUCTS:**

- **Poly 74-20 Liquid Rubber**
  
  1A:2B Mix Ratio | Shore A20 | 30-Min. Pour Time | 800 cP Mixed Viscosity

- **PlatSil® 73-29 Silicone Rubber**
  
  1A:10B Mix Ratio | Shore A30 | 45-Min. Pour Time | 15,000 cP Mixed Viscosity

- **Poly 74-45 Liquid Rubber**
  
  1A:1B Mix Ratio | Shore A45 | 30-Min. Pour Time | 2,500 cP Mixed Viscosity

- **Poly 75-29 Liquid Rubber**
  
  Popular for gasket panels for brick veneer.

  1A:1B Mix Ratio | Shore A30 | 30-Min. Pour Time | 2,800 cP Mixed Viscosity

- **Poly 75-65 Liquid Rubber**
  
  Popular for patterns with little to no undercuts.

  1A:1B Mix Ratio | Shore A65 | 35-Min. Pour Time | 3,000 cP Mixed Viscosity

- **Poly 75-80 Liquid Rubber**
  
  2A:1B Mix Ratio | Shore A80 | 45-Min. Pour Time | 5,000 cP Mixed Viscosity

Form Liners

Use polyurethane liquid mold rubbers to create custom flexible rubber inserts or form liners that are placed into a rigid form. Liners can be easily removed from the form for demolding or replaced when a change in texture is desired. Polytek polyurethane rubbers can meet the demands of any size liner.

**RECOMMENDED PRODUCTS:**

- **Poly 74-29 Liquid Rubber**
  
  Popular for patterns with moderate undercuts.

  1A:1B Mix Ratio | Shore A45 | 30-Min. Pour Time | 2,500 cP Mixed Viscosity

- **Poly 75-65 Liquid Rubber**
  
  Popular for patterns with little to no undercuts.

  1A:1B Mix Ratio | Shore A65 | 35-Min. Pour Time | 3,000 cP Mixed Viscosity

- **Poly 75-80 Liquid Rubber**
  
  2A:1B Mix Ratio | Shore A80 | 45-Min. Pour Time | 5,000 cP Mixed Viscosity

Use firm polyurethane mold rubbers to cast reusable block-outs or hole formers.

**RECOMMENDED PRODUCTS:**

- **Poly 75-65 Liquid Rubber**
  
  1A:1B Mix Ratio | Shore A65 | 35-Min. Pour Time | 3,000 cP Mixed Viscosity

- **Poly 75-80 Liquid Rubber**
  
  2A:1B Mix Ratio | Shore A80 | 45-Min. Pour Time | 5,000 cP Mixed Viscosity
**Decorative Surfaces & Decor**

**Stamps & Texture Mats**
Pour Polytek liquid rubbers onto a textured pattern (e.g., slate, brick, cobblestone, flagstone, etc.) to make reusable stamping tools and texturing skins to impart any desired texture into a concrete floor, wall or other surface. Concrete stamping is used to make faux stone walls, textured pool decks, walkways, patios, driveways, stairs, countertops and more.

**RECOMMENDED PRODUCTS:**
- **Poly 74-45 Liquid Rubber**  
  1A:1B Mix Ratio | Shore A45 | 30-Min. Pour Time | 2,500 cP Mixed Viscosity
  *popular as “floppies” for stamping corners and edges*

- **Poly 75-65 Liquid Rubber**  
  1A:1B Mix Ratio | Shore A65 | 35-Min. Pour Time | 3,000 cP Mixed Viscosity
  *popular for vertical stamping*

- **Poly 75-80 Liquid Rubber**  
  2A:1B Mix Ratio | Shore A80 | 45-Min. Pour Time | 5,000 cP Mixed Viscosity
  *popular for flatwork*

**Countertops**
Liquid polyurethane mold rubbers can be used to create the entire shape and texture of the countertop, or, in conjunction with rigid forms, can be used to create individual countertop elements. These include sink inserts, decorative edging and trim strips, drain boards and much more.

**RECOMMENDED PRODUCTS:**
- **Poly 74-45 Liquid Rubber**  
  Popular for edge strips and full tabletops.  
  1A:1B Mix Ratio | Shore A45  
  30-Min. Pour Time | 2,500 cP Mixed Viscosity

- **Poly 75-65 Liquid Rubber**  
  1A:1B Mix Ratio | Shore A65 | 35-Min. Pour Time | 3,000 cP Mixed Viscosity

- **Poly 75-80 Liquid Rubber**  
  2A:1B Mix Ratio | Shore A80 | 45-Min. Pour Time | 5,000 cP Mixed Viscosity

**Site Furnishings & Decor**

Make poured, brush-on, or spray-on rubber molds to reproduce concrete statues, tiles, decorative panels, outdoor and indoor furniture, planters and much more.

**RECOMMENDED PRODUCTS:**
- **Poly 74-20 Liquid Rubber**  
  Use for models with deep, irregular undercuts.  
  1A:2B Mix Ratio | Shore A20  
  30-Min. Pour Time | 800 cP Mixed Viscosity

- **Poly 74-45 Liquid Rubber**  
  Use for models with moderate undercuts.  
  1A:1B Mix Ratio | Shore A45  
  30-Min. Pour Time | 2,500 cP Mixed Viscosity

- **Poly 75-65 Liquid Rubber**  
  Use for models with little to no undercuts.  
  1A:1B Mix Ratio | Shore A65  
  35-Min. Pour Time | 3,000 cP Mixed Viscosity
RECOMMENDED PRODUCTS:

Poly 74-20 Liquid Rubber
- Popular for models with deep, irregular undercuts (e.g., wall stone, steps).
- 1A:2B Mix Ratio | Shore A20
- 30-Min. Pour Time | 800 cP Mixed Viscosity

Poly 74-45 Liquid Rubber
- Popular for multi-cavity molds.
- 1A:1B Mix Ratio | Shore A45
- 30-Min. Pour Time | 2,500 cP Mixed Viscosity

Poly 75-70 Liquid Rubber
- Popular for pavers and stepping stones with minimal undercuts.
- 1A:1B Mix Ratio | Shore A70
- 40-Min. Pour Time | 3,000 cP Mixed Viscosity

Polygel® 35 Brush-On Rubber
- Self-thickening mold rubber popular for vertical applications. Spray version also available.
- 1A:1B Mix Ratio | Shore A35
- 8 to 10-Min. Working Time

ARCHITECTURAL

Architectural precast producers and restoration specialists use polyurethane rubbers to make molds of original architectural elements. Concrete can be poured into rubber molds to create brackets, decorative panels, medallions, cornice molding, balusters, columns and more.

RECOMMENDED PRODUCTS:

Poly 74-20 Liquid Rubber
- Use for models with deep, irregular undercuts.
- 1A:2B Mix Ratio | Shore A20
- 30-Min. Pour Time | 800 cP Mixed Viscosity

Poly 74-45 Liquid Rubber
- Use for models with moderate undercuts.
- 1A:1B Mix Ratio | Shore A45
- 30-Min. Pour Time | 2,500 cP Mixed Viscosity

Poly 75-65 Liquid Rubber
- Use for models with little to no undercuts.
- 1A:1B Mix Ratio | Shore A65
- 35-Min. Pour Time | 3,000 cP Mixed Viscosity
**Release Agents for Mold Making**

**Pol-Ease® 2300 Release Agent**
Silicone-based, aerosol spray release agent for use on non-porous or sealed models when making polyurethane rubber molds.

**Pol-Ease® 2350 Sealer & Release Agent**
White petrolatum dissolved in mineral spirits. This semi-permanent option can serve as a sealer and/or release agent for porous and non-porous models when making polyurethane rubber molds. No additional release agent necessary.

**Poly PVA Solution**
Water-soluble, alcohol-based sealer for porous models. Clear and green versions available. Must use in conjunction with additional release agent (e.g., Pol-Ease® 2300 Release Agent) when making polyurethane rubber molds.

**PolyCoat Sealer & Release Agent**
Semi-permanent, silicone-based sealer and release agent. No additional release agent necessary.

**Release Agents for Casting Concrete**

**Pol-Ease® 2650 Release Agent**
Silicone-free, oil-based release agent designed for use when casting concrete in polyurethane molds. As light of a coating as possible can be sprayed or brushed into the mold with casting done immediately following since no drying is needed.

**Pol-Ease® 2601 Release Agent**
Water-based release agent which can be brushed or sprayed into polyurethane molds when casting concrete. Works best when allowed to dry. As with other releases containing silicone, castings may need washing before applying finishes. Because this release agent is water-based, it does not affect the dimensions of cured rubber molds as much as releases that contain solvents.

**EasyFlo-Series Liquid Plastics**
EasyFlo polyurethane plastics are low-viscosity, fast-setting polyurethane plastics often used for fast pattern production.

**EasyFlo 60** has a fast working time of 2 to 2.5 minutes and a demold time of 15 to 30 minutes. **EasyFlo 95** has a working time of 5 minutes and a demold time of 20 to 90 minutes.

**EasyFlo Spray FR Plastic**
Use this fast-setting (cures in less than 30 minutes), sprayable polyurethane system to hardcoat rigid surfaces such as hotwire-cut EPS foam, MDF or wood. This thin, tough and easy-to-sand coating can be applied in one or more layers to create a finished model or fabricated form for concrete casting. This is a flame-retardant product: UL-94 (V-0).

**EasyFlo-3 Series Plastics & PolyFiber II**
For a fast-setting hardcoat, add PolyFiber II thickener to EasyFlo-Series Liquid Plastics to bring these low-viscosity resins to a brushable consistency. Use **EasyFlo 60** for a 2 to 2.5-minute working time and a 15 to 30-minute demold time. Use **EasyFlo 95** for a 5-minute working time and a 20 to 90-minute demold time.

**Hardcoats**

**Poly 15-Series Liquid Plastics**
Use Polytek’s toughest line of polyurethane plastics to create permanent masters, supportive shells and mother molds.

Use **Poly 1511, Poly 1512 or Poly 1512X** with PolyFiber II thickener for shells and mother molds. **Poly 15-3** and **Poly 15-3X** offer minimal shrinkage and are great for replicating masters.

**EasyFlo-Series Liquid Plastics**
EasyFlo polyurethane plastics are low-viscosity, fast-setting polyurethane plastics often used for fast pattern production.

**EasyFlo 60** has a fast working time of 2 to 2.5 minutes and a demold time of 15 to 30 minutes. **EasyFlo 95** has a working time of 5 minutes and a demold time of 20 to 90 minutes.

**Poly 74/75 Part X Accelerator**
Add this liquid accelerator to Polytek polyurethane rubbers to accelerate the cure.

**PolyColor Dyes**
Dyes for coloring Polytek polyurethane rubbers and plastics. Available in black, brown, blue, green, red, yellow and white.
Polytek® Liquid Mold Rubbers
for Concrete Casting, Texturing & Stamping
are available across the United States and internationally: