

## POLYKOAT PRIME 100

98% solids, polyurea base coat / primer

### HIGH PERFORMANCE COATINGS



PolyKoat Prime 100 is a low odor, 98% solids, two component polyurea designed as a base coat / primer for high performance coatings systems. PolyKoat Prime 100 has an extended open time which allows users to coat larger areas prior to broadcasting Rapid Cast chips and quartz. Adhesion and broadcast consistency is also improved due to the longer open time. PolyKoat Prime 100 offers excellent elongation so it can be applied to multiple substrates.

#### Key Features & Typical Benefits

- Excellent open time provides more time for broadcasting media.
- High solids provides great coverage and low odor.
- Less than 50 VOC formula and non hazardous.
- Excellent for use in the *Rapid Cast™* Chip Floor System.
- Can be tinted with *SurfKoat's Colour Koat Prime Pack™*.
- VOC compliant for all areas in the United States and Canada.

#### Recommended Applications

Effective on applications such as...

- Garages
- Auto Service Centers
- Laboratories
- Cafeterias
- Many other interior concrete floors where a fast curing, high performance coating system is needed.



#### Specifications / Compliances

- Dried coating is USDA accepted
- Meets OTC, CARB, LADCO & SCAQMD VOC restrictions.

#### Typical Properties & Technical Information

PROPERTY	VALUE
Solids/Active Content, Percentage by weight	98%
Dry Time - Tack Free	2 - 4 hours
Dry Time - Foot Traffic	8 - 12 hours
Re-Coat Time Window	2 - 12 hours
Application Temperature	50° F - 80° F
VOC (Volatile Organic Compound) Content	Less than 50 grams/Liter
Mix Ratio	2(A) : 1(B)
Appearance - Dry	Clear

Testing in accordance with procedures outlined in EPA Method 24, "Volatile Organic Content VOC of Paints and Related Coatings". The solids content was determined in accordance with ASTM D 5095 and the VOC was calculated in accordance with ASTM D 3960.

# PolyKoat Prime 100

## Application Instructions

**SURFACE PREP:** The concrete surface must be deemed mechanically and structurally sound, completely clean, and dry. To achieve desired results, a mechanical grinding method should be performed with a 30 grit or coarser diamond to insure flatness of the substrate, to remove surface impurities, and to profile the surface of the floor to a CSP-2, as recommended by the ICRI Technical Guideline No. 03732.

Substrate and air temperature must be no less than 50° F and not exceed 80° F. If applied outside these limits the sealer may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing. Note that in direct sunlight, substrate temperature can exceed 150° F which can cause extreme bubbling issues.

**MIXING:** If mixing less than a full kit, mix Part A & Part B separately with a stir stick, low speed mixer or vigorously shake container prior to blending the smaller kit to ensure uniform distribution of all ingredients. Proper mixing is pertinent to application success. Pour a full pre-packaged kit of 2 parts A to 1 part B using a clean, dry working pot (mixing container). Stir contents approximately 30-60 seconds. Avoid over-mixing or creating a vortex which could introduce moisture content to the mixture. No induction time is required prior to use, nor after mixing. If integrating anti-skid media agents, only do so after Parts A & B have been thoroughly mixed.

**COVERAGE RATE:** 250 - 350 ft<sup>2</sup> per gallon\*

\*Coverage rates may vary depending upon surface porosity, texture, application method and prior sealer application. Excessive build up should be avoided.

**POT LIFE:** Expected workable pot life after mixing Part A and Part B is approximately 20-25 minutes at a common temperature range of 70°F - 80°F at roughly 50% relative humidity. Please note that higher temperatures and high percentages of humidity will shorten pot life, as colder temperatures and lower percentages of humidity will extend the coatings pot life.

**APPLICATION INSTRUCTIONS:** Application should be completed by rolling or a squeegee and back roll using a 3/8" synthetic nap, phenolic core roller, or a lambs wool cover for pigmented, stained floors, or media coats. It is recommended to use only 18" wide squeegees and rollers. If considering using airless application method, consult the manufacturer prior to application. Please note that the use of pump-up style spray bottle may create visible bubbles, blisters, and pinholes and is not recommended.

***PolyKoat Prime 100 must be re-coated within 12 hours. If beyond 12 hours, the coating must be sanded or screened with a 120 grit screen or equivalent. Failure to scarify beyond 12 hours may result in delamination and product failure.***

FOR PERSONAL PROTECTION USE GLOVES, GOGGLES, AND RESPIRATORS.

**PLEASE NOTE:** Applying material outside the suggested parameters may result in product failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc. When applying, do not exceed 400 sq. ft. per gallon. Applying too thin of a coating may cause inadequate film formation or performance expectations may be limited. **DO NOT USE ON BRICK.** Increased Temperature will shorten re-coat window. Decreased Temperature will lengthen re-coat window.

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## Precautions and Limitations

- This product will not freeze during storage, however, allow temperature to rise to 50°F prior to application.
- This product is designed to be a base coat / primer only. It should not be used as a stand alone coating.
- Tint only with Kolour Koat Prime Pack! Do not use any other tint systems. Use of other tint systems may result in product shock and/or failure.
- All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- If using indoor, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- This product performs best when applied as one or two medium-light coats, not one heavy coat.
- Please be aware that this product when cured may be slippery when wet. An anti-slip additive, such as Surf-Grip, can be added to reduce slip hazards.
- All new concrete must be cured for at least 28 days prior to application.
- It is not recommended to thin product. Improper thinning may cause sealer to delaminate in a short time frame.
- This product may darken the surface of many new and existing concrete slabs. Test prior to use.
- Physical properties listed on this technical data sheet are typical values not specifications.
- **SOLVENT VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.**

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**CLEAN-UP:** Use acetone or MEK. Dispose of containers in accordance with local, state and federal regulations.

**PRODUCT REMOVAL:** Dried, cured sealer may be removed with a commercial paint stripper, such as *Nock-Off* or by using a diamond grinding method, sandblasting method or similar mechanical action.

**SHELF LIFE:** Up to six months from manufacture date in its original, unopened container stored at room temperature.

**PACKAGING:** Available in 3 gallon and 15 gallon kits.

Always read all technical information, label and SDS prior to use. This information can be found online or by calling customer service at the number below.

# PolyKoat Prime 100

## Extended Technical Data

Tensile Strength (ASTM D412)	3600
Elongation (ASTM D412)	200
Flexibility, 1/8" Mandrel (ASTM D1737)	Pass
Tabor Abrasion mg loss (ASTM D4060)	32
Tear Strength / PLI (ASTM 2240)	360

## Chemical Resistance

R - recommended (little to no visible damage)  
 RC - recommended conditional (some effect, swelling or discoloration)  
 C - conditional (wash within one hour of exposure to avoid effects)  
 NR - not recommended (visible damage will occur)

Acetone	C
Xylene	RC
MEK	NR
Isopropyl Alcohol	R
Methanol	R
Gasoline	RC
Diesel Fuel	RC
Skydrol	C
Motor Oil	R
Water	R
Sugar / Water	R
Chlorinated Water	R
Clorox (10%) Water	R
Vinegar / Water 5%	R
Ammonium Hydroxide 50%	RC
Sodium Hydroxide 25%	R
Muriatic Acid 10%	R
Nitric Acid 10%	NR
Sulfuric Acid 10%	R
Sulfuric Acid >50%	NR
Phosphoric Acid 10%	R
Phosphoric Acid 50%	NR
Hydrochloric Acid 20%	RC
Hydrofluoric Acid 10%	NR

Surface Koatings, Inc. warrants our products to be of good quality, free of defects and will conform with our published specifications in force on the date of acceptance of the order. As the exclusive remedy for breach of this warranty, we will replace defective materials. Ninety days after Surface Koatings, Inc. has shipped the products, all our warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates, and no action for breach of any said duties may thereafter be commenced. No warranty is expressed or implied as to the length of life of this product, or merchantability or fitness. Liability, if any, is limited to the purchase price of the material. Under no circumstances will Surface Koatings, Inc. be liable for a consequential damage to anyone in excess of the purchase price of the products.