

Smith's

PRE-COAT POLYMER

Product Data Sheet & Application Guide

PreCoat-PDS-040522

READY-TO-USE WATER-BASED ACRYLIC CO-POLYMER PRE-TREATMENT FOR FORMED, CAST & CARVED CONCRETE

DESCRIPTION: Smith's Pre-Coat Polymer is a water-based co-polymer which is applied to cast concrete surfaces, such as statuary, carved concrete, cast concrete stonework, etc. prior to paints or stains to improve adhesion to smooth finished cast concrete as well as achieve a more uniform stain / paint coverage.

RECOMMENDED USES:

- Pre-Treatment for [Smith's Ornamental Arts](#) over:
 - Concrete Statuary
 - Cast Concrete
 - Masonry
 - Carved Concrete
- Bonds to Porous / Absorbent Mineral-based Substrates:
 - Concrete
 - Block
 - Brick
 - Plaster
 - Stucco
 - Stone

HIGHLIGHTS:

- Ready-to-Use
- Fast-curing – Stain or Paint over in as little as 30 minutes
- Alkalinity Resistant & Water Submersible once fully cured
- Breathable – Won't seal in moisture to build efflorescence
- Reduces chalking of cast concrete surfaces – Improves long-term adhesion
- Low Odor & Low VOC's
- Interior / Exterior use

AVAILABLE KIT SIZES:

SCS-PCPS-640 5 Gallon Plastic Pail

STORAGE:

Indoors between 50°F (4.4°C) to 85°F (29°C)
 *Do not allow liquid product to freeze



SUBSTRATE SURFACE TEMPERATURE:

40°F (10°C) to 100°F (38°C) with less than 95% Ambient Humidity
 *Cooler substrate temperatures will significantly slow the cure rate

DO NOT FREEZE

SHELF LIFE: 1 Year in original, unopened containers.
 3 months once opened

LIMITATIONS:

- DO NOT DILUTE / THIN THIS PRODUCT
- NOT for Use as a wear surface sealer or cure and seal
- Apply ONLY in THIN / EVEN COATS
- DO NOT APPLY if rain is expected within 2 hours after application or if freezing temperatures are expected within 8 hours of initial application
- DO NOT USE Muriatic / Hydrochloric Acid to prepare concrete as Chloride Contamination may occur



CURE TIMES (72°F / 50% Relative Humidity):

*Higher temperatures & humidity will shorten working time.

Working Time – porous surface	15 to 20 minutes
Tack Free / Dry to Touch	25 to 30 minutes
Recoat Window	30 minutes up to 4 days <i>(Must remain uncontaminated)</i>
Foot Traffic	N/A – Not traffic bearing
Full Cure (Complete Crosslinking)	4 days

PROPERTIES (Typical Results):

Property	Test Method	Results
Volatile Organic Compounds (VOC'S)	ASTM D3960	27 g/L
Volume Solids	ASTM D2196	6.5%
Viscosity @ 77°F	ASTM D2196	≤20 cP
Odor		Nil
Color		Milky, dries clear
Weight per Gallon		8.35 lbs.

APPROXIMATE COVERAGE:

Varies depending on application, porosity, surface profile

Priming = 100 to 400 sq.ft. per gallon (Absorption dependent)

CLEAN-UP: Soap & water while wet



PERSONAL PROTECTION EQUIPMENT:



WEAR RESPIRATOR WHEN SPRAYING



- In case of insufficient ventilation, wear suitable respiratory equipment (TC 19C NIOSH/MESA) when spraying
- Wear Chemical Resistant Gloves - Avoid contact with skin, may cause allergic reaction or skin irritation
- Wear Chemical Resistant Eye Protection - Prevent contact with eyes



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TEMPERATURE and HUMIDITY: Substrate temperature, air and materials must be maintained between 40°F (4.4°C) to 100°F (38°C) with less than 95% Ambient Humidity during application.



DO NOT
FREEZE



Keep
Cool

NOTE: During application in environments using temporary heat, make sure to exhaust emissions and toxic fumes from temporary heaters to the exterior of the building to prevent health hazards and damage to work. Many temporary heating methods emit unburned petroleum into the air which act as a bond breaker once it falls onto the surface of the substrate

- Precautions must be taken when using LP, gasoline, diesel, etc. fueled temporary heat.
- Always shut off temporary heat at least 2 to 3 hours prior to application to reduce risk of airborne petroleum contamination
- Always clean the mechanically prepared surface with [Smith's Oil Clean](#), [Smith's Green Clean Pro](#) or TSP using a Zero (0) degree rotating nozzle with a Pressure Washer ($\geq 12,000$ Work Units) followed by a thorough clean water rinse when temporary heat has been in use
- Fisheyes are a result of surface contamination

INSPECT THE SUBSTRATE: Ensure substrate is sound/solid, free of any contaminants that may act as a bond breaker, such as dirt / debris, oil / grease, loose paint / coatings, release agent, wax, silicone, etc.

CONTAMINATION OF SUBSTRATE: Concrete is porous and can become contaminated with oils, chemical from spills, etc. which act as a bond breaker. Prior to any product application, determine if a potential bond breaker exists and a proper course of remediation. Contact Smith Paint Products for remedial recommendations while following local regulations regarding contaminant and disposal.

OIL CONTAMINATION: Use [Smith's Oil Clean](#) to remove oils, (i.e. petroleum, synthetic & food oils) from the surface of the concrete prior to mechanical preparation.

CHECK FOR MOISTURE: Smith's Pre-Coat Polymer will not suppress / reduce moisture vapor transmission in any manner.

Concrete must be hard set, no less than 4 days old at 72°F average daytime temperature and no less than 45°F night time temperature during this period to ensure all bleed water / water of convenience escapes and may be damp, dry at time of application (no puddles nor standing water).

Smith Paint Products is strictly a product manufacturer & does NOT offer any testing or analysis. When in doubt, hire a qualified third party testing firm.

SUBSTRATE PREPARATION:

Buffered Etching Compound – [Smith's Green Clean Pro](#) may be used to etch bare, concrete which has not been previously sealed. Allow to dwell while remaining wet for 20 to 30 minutes, agitate using a nylon brush then rinse Smith's Green Clean Pro via pressure washing using a zero-degree rotating nozzle at $\geq 12,000$ work units (Gallons per Minute X Pressure Washer PSI = work units)

NOTE: When etching, ensure all [Smith's Green Clean Pro](#) and cement slurry has been thoroughly removed with potable water

- *DO NOT ATTEMPT to use [Smith's Green Clean Pro](#) on previously sealed / coated / painted surfaces or surfaces containing curing compounds
- "Green" - new regular concrete typically requires at least 28 days with an average daily temperature of $> 65^{\circ}\text{F}$ (18.3°C)
- High Early Strength concrete typically requires 4 to 5 days cure with an average daily temperature of $> 65^{\circ}\text{F}$ (18.3°C)
- Calcium Aluminate-based or Polymer-Modified Overlay bag mix products may not require the use of [Smith's Green Clean Pro](#) for preparation prior to Smith's Pre-Coat Polymer

APPLICATION: Shake, stir or mix Smith's Pre-Coat Polymer before use.



APPLICATION TOOLS

- Soft bristle paint brush
- 3/8" nap min., Premium non-shed paint roller cover
- Sprayer - Pump, Airless or HVLP

Spray apply Smith's Pre-Coat Polymer in a thin, even layer. After 15 to 20 minutes, spread out any puddles/runs/heavy build-up using a paint brush to massage into the pores evenly. Allow the primer to fully dry to a tack free film, typically 30 minutes at 72°F / 50% humidity**, before applying paints / stains.

Coverage varies between 100 to 400 sq.ft. per gallon depending on absorption & texture of the concrete.

*DO NOT APPLY A THICK FILM of Smith's Pre-Coat Polymer

**Cool temperatures require a longer dry time / warm temperatures reduce working time

CLEAN-UP: Clean wet tools, equipment, etc. with soap and water. Once set, residue will need to be removed mechanically



Dish Soap & Water

grinding or razor shaving. Cured product on tools would require scraping or possibly the use of a soldering torch (MAP gas) to overheat the material for easier scraping from metal tools.

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