

# Skid-Pro® Technical and Application Bulletin

## Description

The Skid-Pro Overlay System is a polymer modified cementitious micro-overlay designed for metal, concrete or asphalt surfaces. Skid-Pro can be placed in multiple lifts (coats) for added thickness.

## Recommended For

- Metal deck walkways, offshore heliports
- Refueling and maintenance areas
- Areas where a high coefficient of friction is needed

## Features/Benefits

- High coefficient of friction
- Aesthetically pleasing
- Resistant to chemicals, oils, fuels, etc.
- Rapid setting
- No grade transition issues
- Short downtime
- Adheres to metal, asphalt and concrete
- Cost effective
- No odor or tracking issues
- Easy repair to worn or damaged areas

## Packaging

### Production Kit

- 1 gal of liquid polymer
- 47 lbs cementitious powder
- ± 45 ounces potable water added to Kit for desired workability and coverage

## Additional Options

- Heavy Friction Coarse: granite aggregate topically applied
- Water-Based Sealer for black color variations
- Solvent-Based Color Matched Sealer for additional chemical resistance

## Precautions

- Keep from freezing
- Do not store in direct sunlight
- Keep containers sealed when not in use

## Shelf Life

- Liquid Polymer – 12 months in unopened containers
- Powder – 6 months in dry indoor area
- Aggregate – Unlimited shelf life

## Theoretical Coverage

A two layer kit covers approximately 40 square feet on a moderately smooth surface at 1/16" in (3mm) thickness. Coverage will vary depending on concrete or asphalt condition and porosity.

## Weight

- A two layer system with quartz aggregate weights approx. 0.25 lbs per square foot.

## Performance Data

Compressive Strength	ASTM C-109	3950 PSI
Flexural Strength	ASTM C-238	1835 PSI
Tensile Strength	ASTM C-190	615 PSI
Shear Bond Adhesion	ASTM C-882	>650 PSI
Chemical Resistance	ASTM C-2299	Unaffected
Slip Resistance - DF Tester	See Note 3	0.72
Slip Resistance - Runway Friction Tester	See Note 4	0.75
Accelerated Weathering (4000 hrs)	ASTM G-23	Unaffected

1) The data shown is representative of laboratory tests two (2) days moist cured samples. Reasonable variations from results shown may be experienced as a result of atmospheric and job site conditions. Mix entire sample kit of E-Krete when preparing compressive strength specimens.

2) Composite beam prepared by overlaying 1/8" (6mm) of product on 1/8" concrete wonderboard.

3) NASA Wallop's Island friction testing: average of tester results

4) NASA Wallop's Island friction testing: average runway friction test results (wet test 45 mph)



## Application

The Skid-Pro system is designed to be applied by the Polycon squeegee application device, Polycon mortar blade and Polycon modified spray rig. Material to be applied exclusively by an approved Polycon applicator.

## Curing

On a sunny day (75°F with 50% - 75% relative humidity) the curing time is approximately 3 hours per single layer. The hotter the temperature and the drier the day, the faster the cure time.

## Special Conditions

- Application temperature shall be a minimum of 50°F and rising
- Do not apply when rain is imminent or forecast within 10 hours of completed application
- Application surface must be structurally sound

## Associated White Papers

- MSDS
- EPA Partnership Letter
- EB62
- USACE Unified Facilities Guide Specifications

## Recommended Temperature Range

Ambient and surface temperatures of 50° F and rising to 100° F is the standard range of successful application. However, when the temperature reaches or exceeds 95° F, additional polymer and a small amount of water is required to keep the batch workable. Add additional polymer at a ratio of 3 gallons of polymer to 1 gallon of water to increase rate of flow of material. To decrease flow, add additional powder to achieve workable mix.

## Mixing

Mechanical mixing is recommended. For large areas, Polycon recommends using a batch-mixing machine. The machine must mix the E-Krete composite to a consistent, homogenous mix. For smaller areas, a 6" drill with mortar paddle mixer may be used. It is important to add liquid resin and water first to the mixing container or mixer, followed by the addition of the dry powder. Mix slowly and consistently for best results. Keep unused portions covered and out of heat.

## Directions for use

- 1) Inspect surface for suitability of stable primer (mill primer is acceptable). Remove all rust by shot blaster or wire grinder.
- 2) Prime all cleaned areas.
- 3) Ensure surface is free of all contaminants including oil, grease, dirt laitance, fungus, rust, mildew or any other contaminant that may prevent adhesion. Effective means of preparation may include pressure washing, acid etching, shot or sand blasting.
- 4) Prior to application, surface must be dry and free from all loose particles.
- 5) Set up equipment and mix materials as previously described.
- 6) Apply the Skid Pro with approved application equipment.
- 7) New metal must have a mil primer

## Warnings

- All materials are formulated for industrial and professional use only. Keep out of reach of children
- When exposed to air, the liquid polymer emits a slight ammonia vapor. It is recommended that steps be taken not to breathe the vapor or the dust produced when mixing this product.
- Previously sealed surfaces may require additional prep work (i.e. scarifying).

## Waste Disposal

These products, when discarded or disposed of in their liquid and cured form are not listed as a hazardous waste in Federal Regulations. Dispose in landfill in accordance with local regulations.

**Call 1.601.898.1024 or visit [www.polyconmfg.com](http://www.polyconmfg.com) for more information.**