



Poly Extended

TECHNICAL DATA SHEET



Poly Extended is an 85% solids, two-component aliphatic polyaspartic coating formulated as an extended-work- time system for warm, humid conditions. It cures to a very clear, non-yellowing finish with excellent UV stability, stain resistance, chemical resistance, adhesion, abrasion resistance, flexibility and impact resistance. High humidity accelerates the set time; Poly Extended is designed to preserve useful working time under those conditions.

85%
SOLIDS

1 : 1

MIXRATIO BY VOLUME

~25 min

POT LIFE @ 70°F

45-90°F

APPLICATION RANGE

USES

- Decorative floor finishes
- Industrial floor coatings
- Clear topcoat over color chip and colored quartz systems
- Kitchen floor sealing and finishing
- Slabs, stairs, pedestrian walkways and decks
- Industrial wall/floor and exterior applications

ADVANTAGES

- Extended work time for high heat / humidity
- Aliphatic system - does not chalk or yellow
- Very clear finish and high UV resistance
- High stain and chemical resistance
- Excellent abrasion resistance and adhesion
- Good elongation and flexible, non-brittle film

GENERAL PRODUCT INFORMATION

Appearance	Very clear finish; may be pigmented
Solids	85%
Mix Ratio	1 Part A : 1 Part B by volume
Pot Life	~25 minutes @ 70°F
Processing Temperature	70°F
Application Range	45°F to 90°F
Recommended Film	5, 8 or 10 mils per coat
Maximum Single Coat	Do not exceed 10-12 mils at one time
Recoat	As soon as first coat is walkable; manufacturer states 1-2 hrs
Low Foot Traffic	Approx. 1.5-4 hrs
Heavier Foot	Approx. 5-8 hrs
Traffic Vehicle	Test surface cure before allowing vehicles
Access Shelf Life	1 year

POLY EXTENDED WORKING PROFILE

Variant	Gel Time @ 75°F	Tack Free
Extended	>30-45 min	-4 to 5 hours

Environment matters: hot surfaces and high humidity accelerate gel time. The manufacturer's TDS cautions against using Poly Extended in cool, low-humidity environments because extended cure times can result.

GENERAL PRODUCT PERFORMANCE

TEST / PROPERTY	METHOD	RESULT
Hardness	ASTM D2240	Shore D 60
Tensile Strength	ASTM D412	>4,000 psi
Tear Strength	D470	850 lb/in
Abrasion (CS17)	ASTM D4060-90	4.0 mg / 1000 / 500 cycles
Permeability (WVT)	ASTM E96	0.053 grms/hr/sqft
Elongation	ASTM D124	12%
Viscosity @ 25°C	-	450 +/- 50 cps
UV Resistance	-	High

COMPRESSIVE STRENGTH

8 Hours	7,300 psi
24 Hours	11,200 psi
7 Days	14,100-19,000 psi

SURFACE PREPARATION

Concrete must have a minimum 28-day cure to remove curing agents, release materials, oils, wax, moisture and other bond-inhibiting contaminants. Clean the surface and maintain pH 8.0-11.0. Provide a rough profile of at least CSP 3.

PRIMING & MOISTURE

The system is self-priming on suitable concrete. Where a primer is required, use a primer. If moisture vapor drive or efflorescence is present, use a compatible moisture-vapor-reduction system. Damp conditions require a compatible damp-surface primer.

Professional use only. The manufacturer states the product is for professional applicators. Read the current MSDS/SDS before use and wear appropriate protective clothing and gloves.



Poly Extended

APPLICATION & PERFORMANCE DETAILS



APPLICATION GUIDE

MIXING

Use a jiffy mixer and a 650 rpm drill motor. Mix at slow speed while adding Part B into Part A. Do not alter proportions. Mix completely for approximately 1-2 minutes and avoid entraining air. Mix 1:1 in a separate clean pail, then pour onto the surface, squeegee and back-roll.

APPLICATION

Apply between 45°F and 90°F using a notched or similar squeegee. Back-roll with a short-nap roller, approximately 1/4" to 3/8". Apply in thin films of 5, 8 or 10 mils per coat. Do not apply thicker than 10-12 mils at one time.

Hot Surfaces

May accelerate gel time.

High Humidity

Accelerates gel time.

RECOAT

Apply the next coat as soon as the first coat can be walked on; the manufacturer lists 1-2 hours. If the recoat window is exceeded, lightly sand to create a profile, wipe with acetone and recoat.

CURING

Approx. 1.5-4 hours for low foot-traffic volume and 5-8 hours for heavier foot traffic. Test surface cure before allowing vehicle access. Cure is affected by environmental conditions and high humidity.

PIGMENT & COLOR

The manufacturer's TDS specifies 12-14 oz of its compatible pigment and cautions against incompatible pigments or overloading the system. For best results contact ProStep for approved pigments and available color options.

COLD CONDITIONS

At approximately 50°F, the manufacturer's TDS directs applicators to use a faster system. Poly Extended is not recommended in cool, low-humidity environments because long extended cure times may result.

STORAGE & LIMITATIONS

Key limitations: Some tires may stain the coating. Do not use on wet surfaces or expose Part A to moisture. Keep kits out of direct sunlight and store at room temperature on wood pallets. Pot life is affected by temperature and humidity. Use compatible repair products. The manufacturer also recommends a nitrogen blanket over unused product for storage and humidity protection.

CHEMICAL RESISTANCE

Chemical	24 hrs	7 days
10% Acetic Acid	+	- (yellowing)
100% Ethanol, 200 proof	+	+
50% Sulfuric Acid	+	+
38% Hydrochloric Acid	+	+
10% NaCl	+	+
28% Ammonia	+	+
85% Lactic Acid	+	- (down gloss)
5-10% Clorox Bleach	+	+
Citrus Cleaning Solvent	+	- (slight blisters)
Skydrol PE-5	+	+
Power Steering Fluid	+	+
Transmission Fluid Dextron	+	+
Motor Oil	+	+
Brake Fluid	+	- (slight blisters)
Unleaded Gasoline	+	+
MEK	-	-
Xylene	-	-
Tap Water / Coffee / Cola / Grape Juice / Ketchup	+	+
Mustard	-	- (transient yellowing)

+ Positive result -Negative result. Results reproduced from the source manufacturer's TDS.

ADDITIONAL CHARACTERISTICS

Finish	Clear, color-stable, non-yellowing
Flexibility	Good elongation; formulated to remain non-brittle
Tire Stain Resistance	High resistance to most tires; some tires may stain
Waterproofing	Suitable for elastomeric waterproofing systems
Food Contact	Manufacturer states conformance to USDA requirements for incidental food contact
DOT / FlashPoint	Non-flammable liquid classification; not regulated

IMPORTANT TECHNICAL NOTE

This branded sheet reorganizes and restyles the manufacturer's technical data for ProStep use. It does not replace the current manufacturer TDS, SDS/MSDS, installation specifications or project-specific testing. Technical data can change; verify the current source document before final field use.