



Poly 700

Polyurethane Primer

PRODUCT DESCRIPTION

Poly 700 is a two components polyurethane primer designed to maintain the integrity of concrete surfaces. It exhibits very good mechanical properties

APPLICATIONS

Poly 700 is formulated as a high solids system for industrial floor shops, car washes, mechanical rooms, areas of light manufacturing, or where concrete repair is needed.

ADVANTAGES

- Very good adhesion with various substrates
- Cure at low and high temperature
- Good chemical resistance
- Zero VOC

PACKAGING

Poly 700 is packaged in factory proportioned packaging for easy handling and mixing.
 Resin (A): 2 US gallon
 Hardener (B) : 1 US gallon

STORAGE

All PPI Tech components should be stored in dry, temperature controlled areas between 12-28°C. Do not expose to freezing or excessive high heat

TECHNICAL DATA @ 25°C

% SOLIDS BY WEIGHT	100%	VOC CONTENT	41.77 g/liter
GEL TIME 100G	50-60 Minutes	MIXING RATIO BY VOLUME	2:1
SUGGESTED # OF COATS	2-3	RECOAT TIME (MIN/MAX)	8 Hours / 24 Hours
FOOT TRAFFIC	24 Hours	LIGHT TRAFFIC	3 Days
FULL CURE	7 Days	SHELF LIFE	12 Months unopened
COMPRESSIVE STRENGTH ASTM D695	6800 psi	BOND RESISTANCE ASTM D4541	268 psi
TENSILE STRENGTH ASTM D638	5500 psi	HARDNESS (SHORE D) ASTM D2240	85-90
PERMEABILITY ASTM D570	0.3%	ELONGATION D638	6.7%
ABRASION RESISTANCE ASTM D4060	0.10 g	MIXED VISCOSITY	1000-1200 cps

PRIOR TO USE APPLICATOR MUST ALWAYS READ AND FOLLOW WARNINGS AND INSTRUCTIONS ON PPI Tech. MOST UP TO DATE PRODUCT TECHNICAL DATA SHEETS, PRODUCT LABELS AND MATERIAL SAFETY DATA SHEETS WHICH ARE AVAILABLE UPON REQUEST BY CALLING TECHNICAL SUPPORT DEPARTMENT.

SURFACE PREPARATION

Surface must be clean, sound and dry. Prior to coating a PPI Tech floor all trowel marks and surface imperfections must be removed to produce a smooth & uniform surface. Proper surface preparation is critical to ensure an adequate chemical bond to substrate. Substrate must be dry and free of all wax, grease, oils, fats, soil, contaminants, loose or foreign matter and laitance. Concrete should be cleaned and prepared using a shot blast machine or adequate grinding equipment to achieve a CSP-3 to CSP-4 profile as per ICRI guidelines. Compressive strength of concrete should be at least 3,500 psi (24 Mpa) @ 28 days and at least 215 psi (1.5 Mpa) in tension at time of product application.

MIXING: Poly 700 is supplied in factory proportioned quantities, greatly reducing the risk of applicator error during mixing.

Step 1 - Mechanically premix PART A (resin) with an appropriate slow speed drill equipped with a Jiffy Mixer, for 1 minute.

Step 2 - Slowly empty entire content of PART B into container holding PART A and continue to mix for minimum 3 minutes

DO NOT MIX MORE MATERIAL THAN CAN BE APPLIED WITHIN WORKING TIME LIMITS.

POT LIFE

After mixing, Poly 700 has a pot life of approximately 40 minutes at 25°C. It is important to use it once mixed. Pot life depends on ambient and surface conditions.

APPLICATION

Pour the Poly 700 on the floors and spread the material with a squeegee, then roll back.

CURING

In broadcast system, Poly 700 sets in approximately 4 hours at ambient temperature.

PRECAUTIONS & LIMITATIONS

Prior to application, measure and confirm Substrate Moisture Content, Ambient and Surface temperatures and Dew Point.

Substrate Moisture: Moisture within substrate must be $\leq 4\%$ by mass as measured by Tramex® type concrete moisture meter on mechanically prepared surface.

Dew Point: AVOID CONDENSATION. The substrate must be at least 3°C above Dew Point to reduce risk of condensation. Condensation may lead to failure in adhesion. Avoid situations where substrate temperature is considerably lower than ambient temperature.

Do not add thinners or solvents to mix. Do not add water. Dispose of waste materials in accordance with government regulations. The use of safety glasses and protective gloves is required. In case of contact, flush areas with abundance of water for 20 minutes and seek medical assistance. Wash skin with soap and water. Use only in well ventilated areas.

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