

POLYLOCK

2 PACK POLYURETHANE PROTECTIVE COATING INDUSTRIAL COATINGS



Description

Polylock is a water-based polyurethane designed for application in the most rigorous industrial, commercial and architectural installations by acting as a stain barrier and a wear layer. Its extraordinary abrasion-resistance and durability make it the most durable top sealer for engineered cement, tile, dimensional stone & architectural building materials

POLYLOCK is made of 2 components shipped in correct mix ratios that should be mixed together.

- POLYLOCK A: the resin base component of the mix.
- POLYLOCK B: the catalyst component of the mix

An Anti-slip version of Polylock base is available with higher friction for wet surfaces (ramps, showers...).

Recommended For

Interior or exterior finish coat for Neocement.

Key Features

- Abrasion resistance is 400% better than most floor coatings.
- UV resistance
- Heat resistance
- Chemical resistance

Physical Properties

Yield	Approx. 15 sqm / kg / coat (diluted 50%)	
% Solids as supplied (volume)	41	ASTM D 3960
VOC as supplied	62 g/L	EPA Method 24
Film thickness	WFT should be ~75 mic for 15 sqm/Kg DFT will be ~15 mic	
Pot Life	2 – 4 hours	N/A
Recommended dilution	30 to 50 % water by weight	
Recoat Time	6 – 24 hours	N/A
Set to Touch	2 hours	ASTM D 1650
Print Free Time	12 hours	ASTM D 1650
Fire Rating Class	A _{2fl}	EN 13501-1:2007
Fire Rating Subclass	S ₁	EN 13501-1:2007
Pencil Hardness	3H-4H	ASTM D 3363
Adhesion	>3.5 MPa (concrete fracture)	ASTM D 4541
Static coefficient of friction	0.74 (dry) safe for walkways as per ADA	ASTM F1646
Direct Impact Resistance	0.4m/Kg	ASTM G 14-88
Indirect Impact Resistance	0.4m/Kg	ASTM G 14-88
Abrasion Resistance	30 mgs loss (CS-17 wheels, 1000 grams, 500 cycles)	ASTM D 4060

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Chemical Resistance / 24 Hour Open Spot Test Based on ASTM D 1308-2

10% Hydrochloric Acid	No Effect
10% Sulfuric Acid	No Effect
10% NaOH	No Effect
Saturated Sugar Solution	No Effect
Saturated Salt Solution	No Effect
Ethanol	Film disintegration
Motor Oil	No Effect
Gasoline	No Effect
Xylene	No Effect
Isobutanol	No effect
Clorox	No Effect

Application Conditions

Product, substrate and site temperature, when mixing, during application and during cure, must be between 15°C – 35°C, with humidity <60%, and with good air circulation (typically box fans are required) for normal cure.

Mixing

IMPORTANT NOTES

- POLYLOCK is made of 2 components shipped in correct mix ratios that should be mixed together.
 - Do not divide quantities! Once the pack has been opened you are committed to using the entire product.
1. Stir part A slowly.
 2. Pour part A then part "B" into a mixing pail.
 3. Stir with a drill for 5 minutes at low speed to minimize air entrainment and internal heat (Work pail walls and bottom).
 4. Wait for the induction time to start reaction (Approx. 15 minutes in winter 10 minutes in summer).
 5. After waiting the induction time, dilute with 35%-50% water for roller application and 10-50% for spray application
 6. Blade mix again for 1-2 minutes at low speed. You now have about 1 hour pot life.

Application

IMPORTANT NOTES

- When applying Polylock, you must make sure the applied product looks foggy-hazy --- never white.
- Plan the application so that you can work WET to WET.
- Never cover the finished layer with plastic!
- If needed, a second coat can be applied after the first coat has properly dried (24-48 hours depending on ambient conditions).

SPRAY APPLICATION

1. POLYLOCK can be applied in 1 or 2 coats, use the 1.3 mm nozzle for 2 coats application or the 1.7 mm nozzle for single coat application.
2. Apply a thin, even coat -- typically 5 mils wet film thickness
3. Walking backwards, spray each pass about 4' – 6' across, with a feather release at each change of direction, and an overlap of at least 50%.

ROLLER APPLICATION

If an airless sprayer is not available, a short-nap roller (3/16" or max 1/4") or paint pad may be used. Product must be applied in "V's/W's" as below. Be sure not to overwork/over-roll. Change rollers as needed.

1. Do not pour product onto surface. Load roller and create a "v" or "w" in the above area.
2. Working in a pull/push mode (away from you and towards you), quickly spread the material evenly.
3. Repeat the above adjacent to the first area, overlapping the wet edges.

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CURE

- Movement of air speeds cure time by removing the pillow of moist air that forms as the water leaves the coating.
- In closed, "air-off" jobs, or if the air will be turned off within the first 12 hours of cure, it is very important to have box fans blowing about 7 cm up and across the surface to maximize the cure speed, final resin density; and gloss.
- It's best to keep everything off the substrate for 48 hours if possible and final strength takes 3 - 4 days.
- It is best to allow 72 hours before exposure to chemicals or cleaning.
- It is recommended to clean only with alkaline free cleaners
- The material is typically print-free in 24 - 36 hours.
- Never cover, step or place an object on the surface if the coat is still tacky.
- The surface can be covered with Kraft paper and Masonite about 48 hours after coating. BUT -- if covered before final cure (3 – 4 days) and especially if there is potential for humidity, YOU MUST UNCOVER the surface at night to allow for final cure; and re-cover in the morning.

Pack Size

	Gloss	Low gloss	Anti-slip	Hardener
1US Quart (Kg)	0.73	0.54	0.8	0.16
1US Gallon (Kg)	3.84	2.82	4.22	0.84

Shelf Life

Hardener: 12 months from the date of production.

Base: 24 months from the date of production.

Storage and Handling

The hardener component is moisture sensitive. Store in adequate conditions. Care should be taken to avoid spillage. Product should be stored in a dry area and protected from freezing.

Safety

Use under well ventilated conditions. Do not breathe or inhale spray mist or sanding dust. Avoid skin contact; spillage on the skin should immediately be removed with suitable cleanser, soap and water. In case of eye contact, flush immediately with water for at least 15 minutes and seek medical attention immediately. If you have trouble breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

Cleaning

Close and dispose of containers as chemical waste. Cleanup is soap & water. A small amount of acetone helps in spray guns and to remove overspray. Read and follow all job-specific instructions, site MSDS cautions, post-application precautions.

Technical Assistance

Available through your local COLORTEK® Design Center or through your COLORTEK PAINTS® authorized distributor. For the location of the retailer nearest you, email us at info@colortek.eu or check our website www.colortek.eu.

Disclaimer

Product batches are subject to stringent quality control checks in conformity with ISO 9001:2015, Certificate LB18/234269.

The information submitted in this manual is correct to the best of our knowledge & experience. No liability whatsoever can be accepted based on the information supplied herein.

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