



NewLook International, Inc. PermiPlate 0IS™ (Clear)

Technical Information Sheet

NewLook International, Inc. PermiPlate 0IS™ is an eco-friendly 100% Solids polyurethane with zero isocyanates. The two-component hybrid epoxy-urethane coating is formulated for industrial and commercial use where a very tough, durable coating that is flexible, abrasive and chemical resistant is required. This unique VOC free UV-stable formulation generally outperforms solvent and isocyanate based products. PermiPlate 0IS combines the high chemical resistance properties of epoxy with the advanced durability and wear resistance properties of polyurethane.

USES AND BENEFITS

- Excellent corrosion and chemical resistance – Virtually no effect from motor oil, brake fluid, gasoline, sulfuric and hydrochloric acids
- High Tensile Strength 7,000-10,000 PSI
- Very Hard and abrasion resistant (25-30 loss mg/1000 cycles)
- Self-priming & self-leveling – One coat! (up to 8 mils)
- Twice as durable as conventional polyurethanes, 15-30% greater adhesion and 28 times less porous (Virtually waterproof)
- No special safety equipment or controls needed as with traditional solvents and isocyanates. Reduces installation costs and interruption.
- Less expensive to install.

NewLook PermiPlate 0IS can be used successfully on concrete, masonry, stucco, bricks, pavers, fuel tanks, aircraft and aircraft handling equipment, industrial floors, railroad tank cars, chemical tanks, machine tools, electric equipment, laboratory equipment, x-ray equipment's, telephones, gas cylinders, pumps, battery cases, store fixtures, piping, ovens, construction equipment, and more.

PREPARATION PRIOR TO APPLICATION

All surfaces must be cured, firm and dry. Surfaces should be clean, free of dust, oil, grease and wax. Remove chalky or loose paint, rust, loose mil scale, mildew or any other contamination or condition that would adversely affect the performance of the coating. Repair all spalls and cracks to appropriate standards; fill control joints, cracks and spalls. Use mechanical means such as sandblasting, shot blasting, grinding or chemical means such as with NewLook preparation products.

INSTALLATION - RECOAT

If the second coat is not applied within 24 hours of first coat, then surface must be abraded to afford a tooth allowing for proper mechanical/chemical adhesion. Abrade the surface by sandblasting, mechanical sanders or hand sanding, leaving the surface evenly roughened and scratched.

MIXING

NewLook PermiPlate 0IS is shipped in two separate containers prior to use must rest in packaging at +59-77°F (+15-25°C) for a minimum 24 hours before using. Thoroughly mix Part A and B separately with a Jiffy mixer for at least 3 minutes. Keep mix batches to 3 gallons or less to allow enough time for application before product sets. Keep mixing blade submerged to avoid bubbles and pay special attention to the edges of the container. Pour contents of component B into component A while under light agitation. Mix for additional 2 minutes. PermiPlate 0IS should be kept covered at all times to maximize usable pot life.

Filled Systems: Mix Parts A and B according to instructions above. Then, immediately add dried quartz sand (0.1 – 0.3 mm) or other suitable filler at ratio 1:0.6-1.2 while mixing. Then thoroughly mix for another 2 minutes or until an acceptable application viscosity. Maximum amount of filler is usually no more than 30 - 50%. Apply immediately after mixing in order to prevent sedimentation of sand.

Anti-Slipping Systems: Apply a conventional primer used for epoxy or polyurethane systems. Then apply PermiPlate base coat. Immediately broadcast aggregate to excess (clean, dry sand, quartz, aluminum oxide, glass chips, shredded rubber, etc). Allow base coat to set, then sweep off excess aggregate and apply the top coat. Apply the top coat within 24 hours of base coat application.

APPLICATION

Old Concrete: If needed, apply a thin prime coat of conventional primer used for epoxy or polyurethane systems or thin coat of PermiPlate 0IS. The thickness of the primer layer should be sufficient to seal all the pores and cracks. To fill voids and other physical imperfections of the substrate, avoid pin holing in order to ensure a smooth surface coating.

New Concrete: Allow new concrete to cure for a minimum of 30 days prior to application of PermiPlate 0IS. Apply a thin prime coat of conventional primer or a thin coat of PermiPlate 0IS used for epoxy or polyurethane systems to reduce out-gassing. Care should be taken to achieve required film build.

Pour mixed material onto the floor immediately after mixing and create needed thickness using a notched squeegee. Back roll with a spiked roller to remove any squeegee marks and achieve a smooth finish. If required, apply top coat within 24 hours of base coat application. To ensure a uniform finish, continue to apply product along the edge of a recently coated area where the edge is still wet (applying new product to a dry edge may leave a noticeable line).

REPAIRS AND MAINTENANCE

Small repairs to cuts in the coating can be made by brushing on PermiPlate 0IS after scuffing the damaged area with a sander.

RECOMMENDED PRIMER

Conventional primer might be required for some substrates.

RECOMMENDED THINNER

Lacquer thinner or other hot solvent.

TECHNICAL DATA

Mix Ratio (parts by volume): 3 to 1 (A to B)

VOC: 0

Finish(es): High Gloss

Colors: Clear or Gray

Pot Life (at 50°F): Up to 3 hours, less time with warmer temperatures

Solids Content: 100%

Weight (per gallon): 10

Shelf Life: 12 months (from date of manufacturing)

Cure Time: At 77 degrees F and 50% relative Humidity at 3 mils wet:

To touch: 4 hours

Dry Hard: 24 hours

Full Cure: 7 days

LIMITATIONS

- Surface temperature must be at least 50°F. Colder temperatures may not allow PermiPlate 0IS to cure properly.
- Surface must be dry before application. Avoid moisture during cure time. Do not apply in wet or high humid conditions.
- Recommended application temperature (59°F to 77°F)
- Store containers at room temperature (68°F to 70°F) 24 hours prior to use. Cold material is harder to apply.
- Allow for extended cure time in cold temperature.
- NewLook PermiPlate 0IS has a limited pot life; increases in temperature will shorten the pot life.
- Do not over work the urethane.
- When mixing, the mix ratio must be exact. Any change will cause inferior performance. When the mixed material starts increasing in temperature and thickens, stop using.
- Immediately clean spills with warm water and soap or with a solvent. Cured product can be removed mechanically or with EasyStrip 2000.

STORAGE AND HANDLING

- Keep in a well-ventilated place in tightly sealed containers.
- Protect from frost.
- Keep away from heat, direct sunlight and acids.
- Store product in a dry location at 50 to 90°F.
- Minimum product shelf life is 6 months in factory-sealed containers.

CAUTION

KEEP AWAY FROM CHILDREN AND ANIMALS. Before using or handling, read the MSDS and Product Instructions. DO NOT CONSUME. Avoid contact with eyes and skin and inhalation of high concentration of vapors. Wear rubber gloves, aprons and safety eye goggles.

Antidotes: Ingestion: Call a physician immediately. **Eyes:** flush with large amounts of water for 15 min. Call a physician immediately.

Inhalation: Remove person to fresh air. If person is unconscious or having trouble breathing, call a physician.

Skin: Wash with soap and water.

PACKAGING AND COVERAGE

Product	Container Size	Approximate Coverage (Sq Ft.)
PermiPlate 01S	1 Gallon Kits	Coverage: 160 - 14 square feet at 10 – 120 mils of thickness

WARRANTY

NewLook International, Inc. PermiPlate 01S (“Product”) is not intended for public use and are intended for use by licensed contractors and installers, experienced and trained in the use of these products. Product is warranted to be of uniform quality within manufacturing tolerances. The manufacturer has no control over the use of Product, therefore no other oral or written representation or statement of any kind, express or implied, now or hereafter made is authorized or warranted by NewLook International, Inc. or its affiliates, and NewLook International, Inc. and its affiliates hereby disclaims all such warranties, including those of merchantability or fitness for a particular purpose. In any case, the manufacturer’s obligations shall be limited to refunding the purchase price or replacing material proven to be defective. NewLook International, Inc. shall not be liable for special, incidental, or consequential damages, including delays or lost profits. Communication of this warranty and its limitations to end users is not the responsibility of NewLook International, Inc. but should be communicated by those in direct contact with the end user. Any claim regarding product defect must be received in writing within thirty days from the date of purchase. No claim will be considered without such written notice or after the specified time interval. The end user shall be responsible for determining Product’s suitability and assumes all risks and liability.