



Laykold[®]
MASTERS

PU Primer

1. General Description

Laykold Masters PU Primer is a 2-component, solvent-free, low viscosity polyurethane primer with superior adhesion and sealing properties. It is resistant to most acids, alkalizes, and numerous other chemicals. Laykold Masters PU Primer is an excellent concrete primer for substrates with less than 75% relative humidity (RH). Laykold Masters PU Primer can also be used to block rust and stain migration from asphalt or concrete substrates through Laykold Masters Color system.

Basic Use: Laykold Masters PU Primer is used to prime properly prepared concrete substrates with RH levels less than 75%. IT can also be used to block rust stain migration from asphalt and concrete substrates.

2. Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. Adequate ventilation is required during application.

3. Storage and Packaging

Laykold Masters PU Primer should be kept dry, cool, and in original packaging. Laykold Masters PU Primer has a shelf life of 1 year.

Packaging: 12.3 kg kit (approximately 3 gallon unit)

4. Coverage

Laykold Masters PU Primer coverage is approximately 0.145 kg/m² (0.03 gal/yd² or 300 ft²/gal) for a standard 4 mil application.

5. Testing and Installation Guidelines

New concrete substrates shall be installed with a vapor barrier according to ASBA guidelines and finished to a CSP3 profile. **No use of curing agents is allowed.** New concrete substrates shall be allowed to cure a minimum of 30 days and asphalt shall be allowed to cure a minimum of 14 days. Existing concrete shall be brought to a CSP3 surface profile by mechanical methods such as shot-blasting or hydro-blasting. All concrete substrates must be tested for relative humidity (RH) content before application of Laykold Masters PU Primer.

Features and Benefits

- ✓ Blocks MVT of less than 75% RH
- ✓ Non flammable
- ✓ Solvent-free
- ✓ Quick cure time
- ✓ Easy application
- ✓ Optimal penetration
- ✓ Outstanding bond strength
- ✓ Blocks rust and stain migration



Probe testing in accordance with ASTM F 2170 shall be performed on various areas to determine the concrete’s relative humidity (RH) content (%). If the RH is less than 75%, Laykold Masters PU Primer may be applied. If the RH is 75% to 100%, allow the concrete additional cure time until RH drops below 75%. If approved, Anhydrous Calcium Chloride testing in accordance with ASTM F 1869-98 may be substituted for probe testing. Testing must show a moisture vapor emission rate (MVER) of 3 lb or less per 1,000 ft² in a 24 hour period before Laykold Masters PU Primer can be applied.

OPTION: Laykold Epoxy VTB Primer (Qualipur 172), a top-side vapor barrier can be applied to concrete with RH levels higher than 75% after a minimum of 5 days cure. Refer to Laykold Epoxy VTB Primer (Qualipur 172) Technical Data Sheet (TDS) for additional information.

Laykold Masters PU Primer is supplied ready to mix as a 2-component product. Pour entire contents of component B into component A and mix with a jiffy paddle and low speed drill (400-600 rpm). Do not incorporate excessive air into the product. Mix for two minutes, scrape down the sides or pail, and mix for an additional minute.

Apply Laykold Masters PU Primer with a high quality medium nap roller or airless spray unit. Apply a uniform film at a steady pace to avoid formation of air bubbles or pooling of product. If bubbles form, spike or back roll bubbles. If moving straight to acrylics, seed with over-dried quartz aggregate sand (20-40 mesh) at a rate of 5 lb per 100 ft² (0.25 kg/m²) while the primer is wet. Allow to cure for 4-6 hours before proceeding with additional coatings.

6. Limitations

- Minimum surface and application temperature: 4°C (40°F) and rising
- Do not apply over wet substrate
- Do not apply to surfaces with active moisture vapor transmission
- Conduct an adhesion test prior to use on asphalt substrates

7. Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

VOC		7.1 g/L*
Solid Content		100%
Renewable Content		44.74%
Viscosity	ASTM D 2196	600-1,000 cPs
Pot Life	ASTM C 603	40-60 minutes
Tack Free Time		4-6 hours
Foot Traffic	ASTM C 920	24 hours
Final Cure		7 days
Adhesion to Concrete	ASTM D 7234	100% Substrate Failure
Moisture Vapor Transmission	ASTM E 96	Avg. 0.214 grains/hour•ft ²





Tear Resistance	ASTM D 1040	Avg. 212+ lb/in ² depending on the system
Flash Point	ASTM D 93	Non Flammable

*Based on standard formula calculation

Above figures are guide values and should not be used as a base for specifications

Consult the Safety Data Sheet (SDS) for more details

For complete and latest warranty and product information, please visit www.advpolytech.com

