



Laykold®

Poly Primer (Qualipur 152)

1. General Description

Laykold Poly Primer (Qualipur 152) 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 Poly Primer is an excellent concrete primer for substrates with less than 75% relative humidity. Laykold Poly Primer can also be used to block rust and stain migration from asphalt or concrete substrates through Laykold acrylic surfacing systems.

Basic Use: Laykold Poly Primer (Qualipur 152) is used to prime properly prepared concrete substrates with RH levels less than 75%. Laykold Poly Primer can be used to block rust and stain migration from asphalt and concrete substrates. Laykold Poly Primer can also be used as a mastic to level depressions.

2. Safety Guidelines

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

3. Storage and Packaging

Laykold Poly Primer (Qualipur 152) should be kept dry, cool and in original packaging. Laykold Poly Primer (Qualipur 152) has a shelf life of 1 year.

Packaging: 3 gallon unit

4. Coverage

For a standard application on concrete or asphalt, Laykold Poly Primer (Qualipur 152) is applied at 4 mils at approximately 0.03-0.04 gal/yd² (0.20-0.25 kg/m² or 175-230 ft²/gal).

5. Testing and Installation Guidelines

New concrete substrate 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 Poly Primer.

Features and Benefits

- ✓ Non Flammable
- ✓ Solvent-free
- ✓ Quick cure time
- ✓ Strong adhesion to concrete and asphalt
- ✓ Easy application
- ✓ Blocks MVT of less than 75% RH
- ✓ Optimal penetration
- ✓ Blocks rust and stain migration
- ✓ Mastic for leveling depressions



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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 Poly 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 Poly Primer can be applied.

OPTION: Laykold Epoxy VTB Primer (Qualipur 182), 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 182) Technical Data Sheet (TDS) for additional information.

Laykold Poly Primer (Qualipur 152) 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.

Primer

Apply Laykold Poly Primer (Qualipur 152) 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. While the primer is wet, seed to refusal with over-dried quartz aggregate sand (20-40 mesh) at a rate of 5 lb per 100 ft² (0.25 kg/m²). Allow to cure for 4-6 hours before proceeding with additional coatings.

Mastic

Split the mixed Laykold Poly Primer equally into 2 clean, dry 5 gallon pails. Add 1 bag (50 lb) of 40-60 mesh clean, dry silica sand and mix until uniform. Once batch is uniformly blended, pour contents into depress and level with a screed. Allow the patch 5-10 minutes to set up and then broadcast with sand at a rate of 5 lb per 100 ft² (0.25 kg/m²) or once cured, roll coat with LM Bond-Kote. Allow to cure for 4-6 hours before proceeding with additional coatings.

6. Limitations

- **NOTE: Do not scrap down buckets or let sit upside down. Only use was naturally flows out of the pail.**
- Work time of product will decrease as temperature rises
- Laykold Poly Primer (Qualipur 152) is not compatible with water or alcohols
- Minimum application temperature: 10°C (50°F)
- Do not apply when rain is imminent
- Do not apply over wet substrate
- Testing before application is required. Do not apply to substrates containing relative humidity (RH) levels exceeding 75% or with active moisture vapor transmission



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- Allow adequate cure time for new asphalt and concrete substrates. A minimum 30-days for concrete and 14-days for asphalt

7. Technical Data

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

| | | |
|-----------------------------|-------------|---|
| VOC | | 7.1 g/L* |
| Viscosity | | 600-1,000 cPs |
| Pot Life | | 40-60 minutes |
| Tack Free Time | | 4-6 hours |
| Cure Time – Foot Traffic | | 24 hours |
| Cure Time – 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 1004 | Avg. 212+ lb/in ² (depending on the system) |

*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

