Primer 67 DPLV

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type | Low VOC, Deep Penetrating, Epoxy Primer

Description | A low VOC, deep penetrating epoxy primer for dense concrete. It is used to increase adhesion and reduce the potential for outgassing on concrete substrates. Can be used to densify the surface of concrete.

Features |
- Tolerant to moisture vapor transmission (<5 lbs per 1000 ft^2 / <24.4 g/m^2)
- Densifies concrete surface
- Low VOC
- Low Odor
- Meets SCAQMD Rule 1113 for VOC content
- VOC Compliant with LEED 4.1

Color | Clear (0000)

Dry Film Thickness | 3 - 4 mils (76 - 102 microns) DFT

Solids Content | 100%

VOC Values | **As Supplied** : 45 g/L

Topcoats | Primer for epoxy and urethane systems.
Topcoat selection will depend on exposure

Application | Concrete must be primed to aid in the “wetting out” required for good adhesion.

SUBSTRATES & SURFACE PREPARATION

General | With all epoxies after priming and before each additional coat, examine the surface for amine blush (oily film). If present, remove by washing with warm water and detergent.

Concrete | Concrete shall be designed, placed, cured, and prepared per NACE No. 6/SSPC-SP 13, latest edition. Abrade to remove all laitance, loose concrete, etc. and to create surface profile in accordance with ICRI CSP 2 or greater.

The prepared surface should have a tensile strength of 250 PSI per ASTM D-7234.
All concrete substrates must be checked for moisture prior to product application using the Plastic Sheet Test, ASTM D-4263. If moisture is present the use of Vapor Stop Primer may be required. Consult your Dudick representative for further information about moisture vapor transmission or specific profile requirements which are dependent on the selected topcoat.

PERFORMANCE DATA (TYPICAL VALUES)

Test Method	Results
Adhesion to Concrete ASTM D7234	Cohesive Failure of concrete
Tensile Stregth ASTM D638	2,000-2,500 PSI

MIXING & THINNING

Mixing | Mix Part A with power mixer. Then mix the pre-measured unit of Part A with Part B until homogenous.

Thinning | DO NOT THIN

MIXING & THINNING

Ratio	1.6:1 by volume (A:B) To prevent material waste and avoid damage to equipment, do not mix more material than can be used.
Pot Life	90 minutes @ 50ºF (10ºC) 60 minutes @ 75ºF (24ºC) 30 minutes @ 90ºF (32ºC) Do not attempt to store mixed material. Residual material should be properly disposed of at the end of each work period.

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

General	Brush and/or roller
Spray Application	Pump Ratio: 30:1 or greater, capable of at least 1 GPM. Filters: 60 mesh filters Material Hose: 3/8" I.D. (min.), 3000 psi or greater rated. Tip Size: 0.015"-0.019" Output PSI: 2500-3000 psi (min.) Gun: Airless gun rated for at least 3000 psi. When siphon feed is used, change the pail out as frequent as necessary to avoid exotherm of the catalyzed material.
Brush & Roller (General)	Use a short-nap mohair roller cover with solvent resistant core. For best results, condition roller before application to minimize lint or loose fibers. A high quality solvent resistant brush may be used for hard to reach areas.

APPLICATION PROCEDURES

General	Prime all surfaces to be coated at 3-4 mils (76-102 microns). **Do not allow the primer to puddle.** At stated minimum recoat times, primer may still be tacky. To optimize intercoat adhesion, it is recommended to apply the basecoat over primer that is tacky. If this is not possible, adhere to maximum recoat times referenced in the curing schedule.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	60°F (16°C)	50°F (10°C)	50°F (10°C)	0%
Maximum	80°F (27°C)	110°F (43°C)	110°F (43°C)	90%

Substrate temperature must be 5ºF (3ºC) above dew point.

CURING SCHEDULE

Surface Temp.	Minimum Recoat Time	Maximum Recoat Time	Cure for Service
50°F (10°C)	8 Hours	5 Days	5 Days
75°F (24°C)	4 Hours	3 Days	3 Days
90°F (32°C)	2 Hours	2 Days	2 Days

- To optimize intercoat adhesion Primer 67DPLV may be top coated once it is dry enough to be tacky but does not transfer when touched.
- Application in direct sunlight may lead to blistering, pinholes, or wrinkling due to outgassing of air in the concrete and high substrate temperatures. Double priming, shading, or evening application may be required.
- Exposure of the primer to direct sunlight or heat will considerably shorten the recoat times.
- If recommended recoat times are exceeded, sanding or abrasive blasting may be required before further coats can be applied.

CLEANUP & SAFETY

Cleanup | Use S-10 Cleaning Solvent, MEK, or Acetone to clean tools and equipment.

Safety | Read and follow all caution statements on this product data sheet and on the SDS. Employ normal safety precautions. Keep container closed when not in use.

Ventilation | Ventilation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. Use MSHA/NIOSH approved air respirators as needed.

Caution | Fire and explosion hazards: This product contains less than 1% volatile components, however, vapors are heavier than air and can travel long distances, ignite and flash back. Eliminate all Ignitions sources. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Packaging |
1 Gallon Kits:
Part A: 0.6 Gallons (in a 1 gal can)
Part B: 0.4 Gallons (in a 1 gal can)
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5 Gallon Kits:
Part A: 3 Gallons (in a 5 gal pail)
Part B: 2 Gallons (in a 3.5 gal pail)

Shelf Life |
Part A: 12 months
Part B: 12 months

When stored in their original, unopened containers. Exposure to excessive heat may cause premature gelling, reduce working time and shelf life.

Storage | All products should be stored in a cool, dry area away from open flames, sparks or other hazards.

Warning: All Dudick products classified by DOT with either white, yellow or red labels, must not be mixed or stored together as an explosive reaction can occur. All products should be stored in a cool, dry area away from open flames, sparks or other hazards.

PACKAGING, HANDLING & STORAGE

Shipping Weight (Approximate)	1 Gallon Kit (3.79 liter kit): 13 lbs (5.9 kg) 5 Gallon Kit (18.9 liter kit): 51 lbs (23.1 kg)

WARRANTY

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