

1. PRODUCT NAME

DPU (Deep Pour Underlayment) / Primer

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

DPU is a self leveling compound of Calcium–Aluminate cement, sand, and proprietary chemicals used to smooth and finish rough interior concrete or wood floors where a fast set is desired within hours. DPU may be applied up to 1½" in a single application. Mixes with water, initial Set 3-5 hours, no troweling or grinding, self healing during flow and working time, light weight and superior strength. DPU is recommended for resurfacing and leveling interior concrete, wood, cement terrazzo, quarry, and ceramic tile floors prior to the installation of resilient flooring, ceramic tile, wood flooring, laminate, or carpet.

Advantages

- One Component, Mixes with Water
- Up to 1 ½" thickness in a single pour
- Initial setting time 3-5 hours
- Reduced weight with superior strength
- No troweling
- Provides a compatible bonding surface for tile, carpet, and other adhesives
- May be pumped or drum mixed and poured
- Easy mixing, long working time
- Fast setting - open to foot traffic in 3-5 hours
- Self-drying
- Thin-set mortar applications or floor coverings that are not moisture sensitive may be placed in as little as 6 hours
- Moisture sensitive floor coverings may be installed in as little as 16 hours

Limitations

- For interior applications only.
- Apply only when surface and ambient temperatures will be 50°F and above for 12 hours and maintain this temperature for 24 hour after application.
- Adding excess water will result in surface whitening and bonding issues.
- To determine the suitability of the substrate surface for adhesion and the finish for appearance including texture and color, install a 10' by 10' test patch at the maximum designed thickness using the techniques, equipment, and materials to be used, for approval by the owner, architect, or contractor prior to proceeding with the job.
- All control and expansion joints must be carried through.
- Concrete must be a minimum of 7 days old.
- Concrete must be structurally sound meeting local building codes.
- Do not apply over dusting or unsound concrete.
- Do not re-temper.
- Do not expose DPU to chemical attack.
- Do not expose DPU to freeze/thaw conditions.
- Substrate temperatures must be 50°F or above.
- For temperatures higher than 85°F consult PROFLEX® Technical Services.
- For applications over wood and non-porous substrates contact PROFLEX® Technical Services for review of the specific project conditions.

Shelf-Life

Factory sealed containers are guaranteed to be of first quality when stored between 45°F and 90°F.
PROTECT PRIMER FROM FREEZING.

Packaging / Coverage

Approximate Coverage per 50# bag. Coverage will be less as thickness increases.

POUR DEPTH (inches) SQ.FT Coverage

¼"	24
½"	12
1"	6
1 ½"	4

4. TECHNICAL DATA

Compressive Strength	ASTM C-109	
	5 hour	1500 psi
	24 hour	2500 psi
	7 day	3000 psi
Working Time	<i>Minimum</i>	15 minutes
Set Time	ASTM C-191	
	<i>Minimum</i>	30 minutes
	<i>Maximum</i>	100 minutes

5. INSTALLATION**Surface Preparation**

Surfaces must be structurally sound and free from all bond inhibiting materials such as dust, paint, oil, curing compounds, sealers, gypsum, and adhesive buildup and residue.

Concrete: Concrete must be structurally sound, clean, and free from all bond inhibiting materials. Weak surfaces must be removed by mechanical means. All adhesive residue must be completely removed by mechanical means.

Wood: Surfaces must be free of any bond-inhibiting materials such as wax, paint, oil, adhesives, loose patches, etc. The subfloor must be ¾" thick, A.P.A. classified type 1 exterior grade plywood or solid hardwood flooring. Spaces in joints should be filled with PROFLEX® Feather Flex. All fastener heads must be flush or countersunk and the plywood should be rigid with- out any flex or bounce. Refasten any loose boards. Install 3.4 pounds per square yard, galvanized, diamond lath that is overlapped at least 2 inches on all sides then mechanically attached. The lath shall be fastened every 6 inches on overlaps and have 8 inch centers starting from a floor joist.

Ceramic Tile / Quarry Tile / Cement Terrazzo: All waxes, sealers, and glazes must be removed. Remove all glazes and roughen the surface by either shot-blasting or other mechanical means.

Priming

All surfaces must be primed with PROFLEX® DPU Primer prior to installing PROFLEX® DPU. The primer must be dry to the touch before applying PROFLEX® DPU. Allow the primer to dry for a minimum of 3 hours and a maximum of 48 hours. The primer dilution or modification will depend on the nature of the substrate.

PROFLEX® DPU PRIMER: 1 gallon container
 Coverage 200-300 sq.ft. per gallon. Actual coverage will vary with porosity of substrate.

Substrate	Primer Dilution with Water	Coverage
Concrete	Dilute Primer 1:2	350 sq. ft.
Porous, Absorbent Surfaces (self-leveling, porous concrete)	Apply primer in 2 coats. Dilute the first coat 1:3 and the second coat 1:1. Allow the primer to dry between coats.	300 sq. ft. (first coat) 400 sq. ft. (second coat)
Terrazzo, Ceramic tile, Burnished Concrete	Dilute primer 1:1, and add 2-4 lbs. of the DPU powder to create a slurry coat to scrub into the surface.	300 sq. ft.
Wood	Dilute primer 1:5	400 sq. ft.

Mixing

Manual Mixing: Mix 1 bag at a time. Place 5 quarts of water into a DPU mixing pail and add one bag of PROFLEX® DPU at a time while mixing with a 7 amp, 650-rpm drill and a Mixing Paddle. Mix thoroughly for approximately 1 to 2 minutes until a lump free consistency is achieved. Extended mixing may entrap air that can cause pinholes and affect surface smoothness.

Do not add more water. Adding more water than specified can result in aggregate settling, low strength, surface dusting and whitening.

Mixing Cont.

Mixer/Pumps: PROFLEX® DPU can be mixed and applied using automated equipment developed specifically for the application of self-leveling underlayments. Because of the variety and complexity of such equipment, it is difficult to provide specific guidelines. Of key importance is maintaining the specified water in the mix. Overwatering can result in surface whitening, powdering, color variations and bonding issues. The equipment must be capable of accurately and consistently metering the appropriate amount of mix water. Mix/pumps should be equipped with a means of setting the water amount per 50# unit of powder to 5.0 quarts of PROFLEX® DPU.

Application

Pour or pump the mixed PROFLEX® DPU onto the prepared floor and spread to the desired thickness with a spreading tool. Smooth the surface with a smoothing tool within 5 minutes of placing. For large continuous pouring, maintain a wet edge and flow the freshly placed material into the previous pour smoothing the transition. Wear cleated shoes while placing the DPU to avoid leaving marks in the fresh material.

Thickness of Application: PROFLEX® DPU may be placed from 1/8" to 1 1/2" neat. Note: For applications above 1/2", minor surface touch ups such as sanding, buffing, and/or skimming may be required. PROFLEX® DPU may be extended up to 2" with the addition of 3/8" clean, washed pea stone. When adding pea stone, add 50 lbs. of pea stone per 50 lb bag of PROFLEX® DPU. The pea stone should be uniformly distributed throughout the mix, as well as completely coated by PROFLEX® DPU. When installed over a wood substrate, a minimum of 3/8" of DPU must be placed over the lath. When applying DPU in multiple lifts, allow the previous layer to cure for 48 hours before the next application. Prime between applications (Follow instructions for priming over Porous, Absorbent Surfaces above).

Clean Up

Clean tools and equipment with water. Do not let PROFLEX® DPU harden on tools. If it does, remove mechanically.

Curing

Prevent exposure to wind, drafts, and direct sun that could cause surface drying and wrinkling.

Finish Flooring Installation

Most thin-set mortar applications or floor coverings that are not moisture sensitive may be placed in as little as 6 hours. Moisture sensitive floor coverings may be installed in as little as 16 hours. Drying time may vary and will depend on a number of factors

including thickness of application, temperature and relative humidity. Test the substrate prior to floor installation to insure that it meets moisture and other requirements specified by the flooring manufacturer.

6. AVAILABILITY

PROFLEX® Products are available nationwide.

To locate PROFLEX® products in your area, please contact:

Phone: 877-577-6353

Website: www.proflex.us

7. WARRANTY

PROFLEX® Products, Inc. offers a limited warranty for this product when used in accordance with printed specifications. A copy of the limited warranty can be obtained by calling technical services at 877-577-6353 or visiting www.proflex.us

8. MAINTENANCE

None required, but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

9. TECHNICAL SERVICES

Technical assistance

Information is available by calling the Technical Support

Toll Free: 877-577-6353

Fax: 863-937-9624

Technical and safety literature: To acquire technical and safety literature, please visit our website www.proflex.us

10. FILING SYSTEM

Division 9