



Product Information

DURALEVEL® 83P Self-Leveling Underlayment

Product Description:

DURALEVEL® 83P is a high compressive strength, self-leveling, cement-based underlayment used to repair, smooth and level concrete as well as existing ceramic, terrazzo or approved plywood subfloors prior to the installation of carpet, vinyl, VCT, laminate, solid and engineered hardwood flooring, ceramic or natural stone. DURALEVEL 83P is suitable for thickness from featheredge to 1" thick; or from 1/2" up to 5" thick when mixed as designed with pea gravel. Use on, above, or below grade. Use DURALEVEL 83P in smaller installations where it may be mixed by hand; or use an underlayment pump to quickly cover large jobs.

Directions for Use:

Read and understand data sheet completely before beginning installation. Follow applicable industry standards.

Surface Preparation:

Prior to application, surface must be clean, dry, free from loose materials, oil, grease, sealers, curing compounds, waxes and all other surface contaminants that may inhibit proper bond. Mechanically roughen smooth or polished concrete, terrazzo or existing tile by scarifying or shot blasting. A surface profile similar to a light broom finish or CSP 4 as defined by ICRI (International Concrete Repair Institute) is recommended.

DURALEVEL 83P is very fluid once it is mixed. Prevent underlayment from seeping through holes in the floor. Pipes, holes and penetrations should be blocked or filled with caulking, grout, or fiberglass insulation prior to application. Treat control, expansion and isolation joints according to appropriate industry standards.

TYPICAL PHYSICAL PROPERTIES

• Heal/Wet Edge Time	20 minutes
• Initial Set (@ 70°F)	1 hour 30 minutes
• Final Set (@ 70°F)	2 hours
Compressive Strengths	
• 4 hours	1500 psi
• 24 hours	3500 psi
• 7 day	5000 psi
• 28 day	5500 psi

Installations over Plywood Using Metal Lath:

Metal lath may be used to reinforce installations of DURALEVEL 83P when subfloors are subject to deflection. It is acceptable to apply DURALEVEL 83P over single layer plywood that is a minimum of 3/4" thick in conjunction with metal lath where carpet, vinyl, or hardwood flooring will be installed. Prior to attaching lath, secure any loose floorboards with 5D or 6D (1 1/2" or 2") cement coated screw shank nails.

Prime the subfloor with Universal Primer™ before fastening lath. Attach 3.2 or 3.4 galvanized, expanded diamond metal lath by stapling approximately every 6 inches. Overlap adjacent pieces of lath, approximately 1". Lath may be applied while the primer is wet, by walking directly on the mesh.

Single layer plywood subfloors do not meet Tile Council of America requirements for ceramic tile or natural stone installations.

Application Over Plywood for Ceramic Tile Installations:

If the existing floor is less than 1" thick, glue and nail 15/32" or 1/2" APA Underlayment Exterior Grade or C-C Plugged Exterior Grade plywood to the floor. Glue and nail using 5D or 6D (1 1/2" or 2") cement coated screw shank nails 6" on center along the panel edges

and a maximum of 8" on center each way throughout the panel. Allow 1/8" gap between underlayment sheet edges and all areas that abut walls, drains, posts, etc. Clean and rough sand the plywood. Deflection should not exceed L/360 (1" in 30 ft.).

Metal lath is not required over double layer plywood but will always improve the durability of installations especially where there are large spans or where deflection is noticeable. Refer to the instructions above for installation of lath.

Cutback Adhesive:

Cutback adhesive residue should be completely removed by scarifying or shot blasting if solid wood flooring is being installed, if there are problems with subfloor moisture, or where ceramic tile installations exceed "Light Commercial" service requirements as defined by the TCA.

For installation of Carpet, Ceramic, Vinyl or Engineered Hardwood over Cutback Residue:

Use a razor scraper or appropriate tool to remove thick build-ups of cutback adhesive using a wet scraping method. The remaining residue should resemble a transparent black stain on the concrete. Wet mop, sweep and vacuum the resulting cutback surface.

Priming:

Prime all surfaces with Universal Primer. Follow instructions on the primer container. Allow the primer to dry (usually 2-4 hours) until it forms a transparent film. Universal Primer may be "broom applied", rolled, or diluted 1:1 and sprayed. If the primer is sprayed it must be "broomed" into the surface with a soft bristled broom so that pores are completely filled and there are no puddles. If the primer is allowed to sit for 24 hours or more, the floor must be re-primed prior to application of underlayment.

If Universal Primer is diluted and sprayed, two coats may be required to apply a sufficient amount, especially on porous surfaces. An insufficient amount of Universal Primer may cause "pin-holes" to form in the underlayment.

Mixing:

Mix 5 1/2 quarts of water per 50 lb. bag of DURALEVEL 83P. Always measure the water added. Do not mix by feel. Always add powder to the liquid. Mix with a high-powered drill at 500-1000 rpms using a "Wagman WMP-30" or other appropriate mixing paddle. Mix to a liquid, creamy, lump free consistency. Spread as quickly as possible.

For deep pours that require an increase in elevation 1" to 5", DURALEVEL 83P should be reinforced with clean dry pea gravel having an average diameter of 1/8" - 3/8". Pea gravel should be mixed at 15 lbs. per 50 lb. bag of DURALEVEL 83P. Additional patching or smoothing may be required if pea gravel is added to the mix.

Application:

Ambient and slab temperatures must be at least 50°F but not more than 95°F during and for 24 hours after application. DURALEVEL 83P may be spread using a metal straight edge, finish trowel, squeegee or similar tool. Use an underlayment rake to remove air and smooth as necessary. Do not cover or bridge expansion or control joints. On large jobs, best results are obtained when DURALEVEL 83P is applied with an underlayment pump. When pumping, adjust the water meter to correspond with 5 1/2 quarts per bag of DURALEVEL 83P. Pump the mix directly on the floor. Spread and smooth as required with a long handled spreader, underlayment rake or appropriate tool.

Curing:

Avoid excessive heat, cold or drafty conditions. Turn radiant heat systems off for a minimum of 7 days after the underlayment is poured. The floor may be exposed to light foot traffic in 4-5 hours. Do not damp cure. Do not apply sealers or curing compounds.

Cure/Dry time prior to installation of floor covering will vary depending on; thickness of pour, temperature and humidity. Allow DURALEVEL 83P to cure until the substrate meets the subfloor dryness requirements of the floor covering manufacturer.

Coverage Rates (per 50 lbs bag):

50 square feet @ 1/8"

25 square feet @ 1/4"

12 square feet @ 1/2"

Limitations:

- All surfaces must be primed with Bostik Universal Primer.
- For interior use only.
- Natural stone such as marble, limestone & travertine may not tolerate deflection in excess of L/720 (1" in 60 ft), refer to the Marble Institute of America Design Manual for details on specific types of stone.
- Single layer plywood subfloors do not meet Tile Council of America requirements for ceramic tile or natural stone installations.
- Cutback adhesive residue should be completely removed by shot blasting in Heavy or Extra Heavy service requirements as defined by TCA guidelines for service requirements.
- If solid wood flooring will be glued to the cured underlayment, all cutback adhesive must be removed completely by shot blasting prior to installing Bostik Universal Primer/DURALEVEL 83P .
- Do not apply over oriented strand board (OSB), particleboard, Masonite, luaun, or similar unstable substrates.
- Do not use where hydrostatic pressure can occur.
- Do not cover or bridge expansion or control joints.
- Do not apply when temperatures will drop below 50°F or go above 95°F for 24 hours after application.
- Do not install flooring until the underlayment meets the subfloor dryness requirement of the flooring manufacturer or applicable industry standards.
- Do not use DURALEVEL 83P as a wear surface.
- Do not use in areas of permanent moisture exposure.
- Do not apply over poured gypsum concretes such as Gypcrete.

Packaging:

DURALEVEL 83P is available in 50 lb bags. 48/pallet. For the name of a distributor nearest you, contact Customer Service at 888-592-8558.

PLANT LOCATIONS

TEMECULA, CA 92590

TWINSBURG, OH 44087

CONYERS, GA 30207

PAULSBORO, NJ 08066



LIMITED WARRANTY

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