

USG DUROCK™ BRAND

3E™ PRIMER



DESCRIPTION

Fast-drying USG Durock™ Brand 3E™ Primer is a single-component, film-forming primer used for priming substrates prior to the application of USG Durock™ Brand self-leveling underlayments. Ready to use (no mixing for nonporous surfaces), USG Durock™ 3E primer is a single-coat application product, suitable for most types of interior floor installations and can be diluted if necessary for highly porous subfloors.

USG Durock™ 3E primer may also be used as a sealer for USG Durock™ Brand Multi-Use self-leveling underlayment to enhance the bond between the underlayment and the floor-covering adhesive.

MIXING EQUIPMENT

- Paint roller
- Push broom
- Electric drill
- Jiffy®-type mixer
- Mixing container

INSTRUCTIONS

Use USG Durock™ 3E primer for priming concrete or wood subfloors prior to application of USG Durock™ Brand EcoCap™, Multi-Use, ProFlow™, Quik-Top™ White, Quik-Top™ Gray, Speed™ and UltraCap® self-leveling underlayments. Proper use of USG Durock™ 3E primer effectively seals the subfloor, enhances bond and prevents formation of pinholes, domes and craters in USG Durock™ self-leveling underlayments due to the upward migration of air bubbles from the subfloor.

To seal USG Durock™ Multi-Use self-leveling underlayment, see the Application section, As a Sealer for USG Durock™ Brand Multi-Use Self-Leveling Underlayment on page 3.

Floors to be primed must be dry, structurally sound and clean. Remove any dirt, tar, wax, oil, grease, latex compounds, sealers, curing compounds, release agents, asphalt, water-soluble adhesives, paint, chemicals, loose topping and joint compounds from drywall installation or any other contaminant that might interfere with development of good bond.

APPLICATION

For applications over concrete and nonporous subfloors, diluting the USG Durock™ 3E primer is not required. Allow the contents of the container to come to room temperature before use. Shake well and pour the contents into a clean bucket. Dry time is estimated to be three hours at 70°F and 65% relative humidity. Allow primer to dry at least three hours, but not more than 24 hours, before pouring USG Durock™ self-leveling underlayment.

APPLICATION CONT.

For highly absorbent subfloors and shot blasted concrete, mix a partial dilution (1:2) of one part USG Durock™ 3E primer to two parts potable water in a clean bucket and mix well with a Jiffy-type mixer at slow speed for approximately one minute. As a sealer for USG Durock™ Multi-Use self-leveling underlayment, mix a full dilution (1:4) of one part USG Durock™ 3E primer to four parts potable water in a clean bucket and mix well with a paddle at slow speed for approximately one minute. Dry time is approximately two hours for a 1:2 dilution and three hours for a 1:4 dilution at 70°F and 65% relative humidity.

Note: High air relative humidity and/or low subfloor temperature may necessitate a longer drying time. Primer must be completely dry (but don't wait more than 24 hours) before application of USG Durock™ self-leveling underlayments.

AS A PRIMER FOR NONPOROUS AND CONCRETE SUBFLOORS

For primer application, the temperature of USG Durock™ 3E primer, the subfloor and the room must be maintained between 50°F and 95°F for a period of 48 hours before, during and after job completion.

1. New concrete must be cured a minimum of 28 days.
 2. When the MVER exceeds 5 lbs./1,000 sq. ft./24 hours, then treat the concrete subfloor with an industry-recognized moisture mitigation system, such as USG Durock™ Brand RH-100™ Moisture Vapor Reducer, in all areas of use where potential for moisture problems may exist.
 3. Job site and USG Durock™ 3E primer must be maintained at a minimum of 50°F (10°C) for 48 hours before, during and after job completion.
 4. Subfloor must be free of dirt, wax, polish, joint compound, paint, excess dust or any other contaminant before application of primer. The use of oil-based sweeping compounds is not recommended.
 5. Apply undiluted primer at a rate of 400-450 sq. ft./gal. USG Durock™ 3E primer can be rolled onto subfloors, but using a push broom to further work primer into the subfloor is strongly recommended.
 6. Allow primer to dry at least three hours, but not more than 24 hours, before pouring USG Durock™ self-leveling underlayment. If 24 hours has passed and the underlayment has not been poured, recoat the subfloor with primer at a rate of 400-450 sq. ft./gal. with roller or push broom.
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AS A PRIMER FOR HIGHLY POROUS/SHOT BLASTED CONCRETE SUBFLOORS

1. New concrete must be cured a minimum of 28 days.
2. When the MVER exceeds 5 lbs./1,000 sq. ft./24 hours, then treat the concrete subfloor with an industry-recognized moisture mitigation system, such as USG Durock™ RH-100 Moisture Vapor Reducer, in all areas of use where potential for moisture problems may exist.
3. Job site and USG Durock™ 3E primer must be maintained at a minimum of 50°F (10°C) for 48 hours before, during and after job completion.
4. Subfloor must be free of dirt, wax, polish, joint compound, paint, excess dust or any other contaminant before application of primer. The use of oil-based sweeping compounds is not recommended.
5. Apply using 1:2 diluted mixture (see the Mixing section, Instructions on pages 1-2) at a rate of 600-800 sq. ft./gal. for porous subfloors. USG Durock™ 3E primer can be rolled onto subfloors, but using a push broom to further work primer into the subfloor is strongly recommended.
6. Allow primer to dry at least two hours on porous subfloors, but not more than 24 hours, before pouring USG Durock™ self-leveling underlayment. If 24 hours has passed and the underlayment has not been poured, recoat the subfloor with primer at 1:2 dilution at a rate of 600-800 sq. ft./gal. with roller or push broom.

AS A PRIMER FOR WOOD SUBFLOORS

1. Use on APA-rated exterior glue plywood or oriented strand board (OSB).
2. Plywood or OSB should not contain more than 12% moisture.
3. Weak, rotted or damaged wood should be replaced prior to priming.
4. Job site and USG Durock™ 3E primer must be maintained at a minimum of 50°F (10°C) for 48 hours before, during and after job completion.
5. Subfloor must be free of dirt, wax, polish, joint compound, paint, excess dust or any other contaminant before application of primer. The use of oil-based sweeping compounds is not recommended.
6. Apply using 1:2 diluted mixture (see the Mixing section, Instructions on pages 1-2) at a rate of 600-800 sq. ft./gal. USG Durock™ 3E primer can be rolled onto subfloors, but using a push broom to further work primer into the subfloor is strongly recommended.
7. Allow primer to dry at least two hours on nonporous subfloors, but not more than 24 hours, before pouring USG Durock™ self-leveling underlayment. If 24 hours has passed and the underlayment has not been poured, recoat the subfloor with primer at 1:2 dilution at a rate of 600-800 sq. ft./gal. with roller or push broom.

AS A SEALER FOR USG DUROCK™ BRAND MULTI-USE SELF-LEVELING UNDERLAYMENT

1. Seal USG Durock™ Multi-Use self-leveling underlayment prior to application of water-based adhesives.
2. At the job site, USG Durock™ 3E primer and underlayment must be maintained at a minimum of 50°F (10°C) for 48 hours before, during and after job completion. Radiant heat systems should be shut down during application and drying of primer.
3. Underlayment must be free of dirt, wax, polish, joint compound, paint, excess dust or other contaminants before application of USG Durock™ 3E primer.
4. Underlayment must be dry prior to application of USG Durock™ 3E primer. Good air movement is critical to drying of underlayment. Check for dryness by taping down a sheet of plastic approximately 18 in. x 18 in. Tape must seal all sides of plastic. After 16 hours, a lack of condensation or no noticeable darkening of USG Durock™ Multi-Use self-leveling underlayment indicates that the floor is dry. Be sure to check for dryness in corners where airflow may be restricted. See ASTM D4263 for complete instructions.
5. Mix one part USG Durock™ 3E primer to four parts potable water in a clean mixing container for one minute. The USG Durock™ 3E primer dilution can be broom- or roll-applied to the underlayment surface at a rate of 400 sq. ft./gal. Do not allow USG Durock™ 3E primer to puddle. Do not overseal USG Durock™ Multi-Use self-leveling underlayment.
6. Allow USG Durock™ 3E primer to dry for three hours before installation of floor-covering products. Dry time will vary with drying conditions.
7. When applying multiple lifts of USG Durock™ Multi-Use, allow primer to dry for three hours, but not more than 24 hours, before pouring self-leveling underlayment. If 24 hours has passed and the underlayment has not been poured, recoat the subfloor with primer at 1:4 dilution at a rate of 400 sq. ft./gal. with roller or push broom.
8. Consult your USG representative when applying uniform materials.
9. No underlayment preparation is required when using high-solids urethane adhesives for wood floor attachment. However, ensuring that the underlayment is completely dry prior to wood floor attachment is especially critical.
10. Recommendations of the floor-covering and floor-covering adhesive manufacturers supercede these instructions.

LIMITATIONS

1. Do not use in exterior applications.
2. Do not use as a wear surface.
3. Do not install where continuous exposure to moisture is a possibility.
4. Do not install on excessively dusty floors.
5. Do not use as a surface sealer on USG Durock™ Brand EcoCap, ProFlow, Quik-Top White, Quik-Top Gray, Speed and UltraCap self-leveling underlayments.
6. Do not use on water-soluble adhesive residues.
7. Do not use as a primer under dispersion wood floor adhesives.
8. If high-solids adhesives are used, do not seal USG Durock™ Multi-Use self-leveling underlayment with USG Durock™ 3E primer.
9. Contact USG for multiple-lift USG Durock™ self-leveling underlayment applications.

PRODUCT DATA

MVER (ASTM F1869): 5 lbs./1,000 sq. ft./24 hrs.

RH (ASTM F2170): NA

pH: 8.2

Solids Content: 30%

Calculated VOC Content (SCAQMD 1168): 19.4 g/L

Coverage Rate: Nonporous Substrates/USG Durock™ RH-100
Apply undiluted primer at a rate of 400-450 sq. ft. per gallon

Coverage Rate: Highly Porous/Shot Blasted Substrates
Apply partially diluted (1:2) primer at a rate of 600-800 sq. ft. per gallon

Coverage Rate: USG Durock™ Multi-Use Surface Sealing
Apply fully diluted (1:4) primer at a rate of 400 sq. ft. per gallon

Approximate Dry Time: 2-3 hours

Packaging: 1 gallon jug, 5 gallon pail

STORAGE

USG Durock™ 3E primer has a one-year shelf life. Do not allow USG Durock™ 3E primer to freeze; do not store above 120°F. Tightly reseal opened containers and use the contents as quickly as possible. Use any material that has been mixed with water within a few days.

CLEANUP

Clean tools with water immediately after use and before USG Durock™ 3E primer dries.

SUBMITTAL APPROVALS

Job Name	
Contractor	Date

PRODUCT INFORMATION

See usg.com for the most up-to-date product information.

WARNING!

Mist, vapors and/or dust may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Avoid irritation by reducing exposure to mist, vapors and/or dust. Use in a well-ventilated area or provide sufficient local ventilation. If misty/high vapor levels/dusty, wear a NIOSH/MSHA-approved mist, vapor or dust respirator. Wear eye protection. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call a physician. Wash with soap and water after use. Do not ingest. If ingested, call a physician. Do not use if material has spoiled, i.e., there is a moldy appearance or an unpleasant odor. Close container and discard properly. Product safety information: 800 507-8899 or usg.com. **KEEP OUT OF REACH OF CHILDREN.**

TRADEMARKS

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NOTICE

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SAFETY FIRST!

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read SDS and literature before specification and installation.

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