

USG DUROCK™ BRAND PRIMER-SEALER



High-quality floor underlayment primer-sealer

- For priming porous and nonporous subfloors prior to application of poured underlayment
- Ideal for use on porous and nonporous concrete subfloors, wood and gypsum underlayment
- Fast drying, single-coat application
- Ready to use (no dilution for nonporous surfaces)
- Enhances bond between substrate and underlayment
- Enhances bond of most adhesives when used as a sealer
- Effective sealer of gypsum-based underlayment prior to application of water-based floor-covering adhesives
- Mildew resistant; no adverse effect on floor-covering adhesives and no staining of finished floor coverings

DESCRIPTION

Fast-drying USG Durock™ Brand Primer-Sealer is a high-solids, low VOC, acrylic primer used for priming substrates prior to the application of USG Durock™ Brand Self-Leveling Underlayments. Ready to use (no dilution for nonporous surfaces), USG Durock™ Primer-Sealer is a single-coat application product, suitable for applications over well bonded, sound, stable and clean existing floor coverings that are on concrete subfloors such as ceramic tile, vinyl composition tile (VCT), cement terrazzo and thin cutback adhesive. USG Durock™ Primer-Sealer can also be diluted with water to prime highly porous concrete, precast concrete, APA-Rated exterior glue plywood, oriented strand board (OSB) and USG Structural Panels.

USG Durock™ Primer-Sealer may also be used as a sealer for USG Durock™ Multi-Use Self-Leveling Underlayments to enhance the bond between the underlayment and the floor-covering adhesive.

MIXING EQUIPMENT

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

INSTRUCTIONS

Use USG Durock™ Primer-Sealer for priming the concrete or wood subfloor prior to application of any USG Durock™ Self-Leveling Underlayment. For applications over compromised gypsum underlayments, see *USG Rehabilitation Guidelines for Damaged Gypsum Underlayments* (CB822) prior to installation. Proper use of USG Durock™ Primer-Sealer 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.

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, joint compounds from drywall installation or any other contaminant that might interfere with development of good bond.

For primer application, the temperature of USG Durock™ Primer-Sealer, the subfloor and the room must be maintained between 50 °F and 95 °F (10 °C and 35 °C) for a period of 48 hours before, during and after application. Shake well and pour the contents into a clean bucket. If dilution is required, add the appropriate amount of water based on the information provided in the *Application* sections on pgs. 2 and 3. Mix the diluted solution with a paddle mixer at slow speed for approximately one minute. Next, apply primer to the subfloor at the coverage rate specified for the corresponding type of substrate surface. Work primer into the surface using a push broom. Apply evenly and do not puddle. The actual coverage of the primer will depend upon the nature and porosity of the subfloor.

INSTRUCTIONS CONT.

For applications over concrete and nonporous subfloors, diluting the USG Durock™ Primer-Sealer is not required. 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 18 hours, before pouring USG Durock™ Self-Leveling Underlayment. High air relative humidity and/or low subfloor temperature may necessitate a longer drying time.

When applying USG Durock™ Primer-Sealer over porous concrete, shot-blasted subfloors and wood subfloors, allow the diluted primer to dry for a minimum of two hours, but not more than 18 hours, prior to the application of the USG Durock™ Self-Leveling Underlayment. High absorption concrete may require additional coats of primer. High air relative humidity and/or low subfloor temperature may necessitate a longer drying time.

When using the diluted primer as a surface sealer over USG Durock™ Multi-Use Self-Leveling Underlayments, allow a minimum of three hours for drying prior to the application of floor covering adhesives. High air relative humidity and/or low subfloor temperature may necessitate a longer drying time.

Contact USG when considering USG Durock™ Primer-Sealer for multiple-lift applications of USG Durock™ Self-Leveling Underlayments and prior to using the product as a surface sealer over any USG Durock™ or USG Levelrock® underlayments not mentioned in this document.

APPLICATION

**AS A PRIMER OVER NONPOROUS SUBFLOORS
OR USG DUROCK™ BRAND RH-100™ MOISTURE
VAPOR REDUCER**

1. Allow USG Durock™ Brand RH-100™ Moisture Vapor Reducer to cure at least four hours before applying USG Durock™ Primer-Sealer.
2. Job site and USG Durock™ Primer-Sealer must be maintained at a minimum of 50°F (10°C) for 48 hours before, during and after job completion.
3. 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.
4. Apply a single coat of USG Durock™ Primer-Sealer (no dilution) with a paint roller or push broom at an application rate of 400-450 sq. ft./gal. (9.8-11.0 m²/L) prior to installation of USG Durock™ Self-Leveling Underlayments.
5. Allow primer to dry at least three hours, but not more than 18 hours, before installation of USG Durock™ Self-Leveling Underlayment. If 18 hours has passed and the underlayment has not been poured, recoat the subfloor with a partially diluted mixture (1:1) of one part USG Durock™ Primer-Sealer to one part potable water at a rate of 400-450 sq. ft./gal. (9.8-11.0 m²/L) with roller or push broom and allow three hours for drying prior to underlayment application.

**AS A PRIMER FOR HIGHLY POROUS/SHOT-BLASTED
CONCRETE SUBFLOORS**

1. New concrete must be cured a minimum of 28 days.
2. When the Moisture Vapor Emission Rate (MVER) exceeds 5 lbs. (2.3 kg)/1000 sq. ft. (92.9 m²)/24 hours per ASTM F1869 or a relative humidity (RH) greater than 80% per ASTM F2170, then the concrete subfloor must be treated with USG Durock™ RH-100™ Moisture Vapor Reducer.
3. Job site and USG Durock™ Primer-Sealer 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 a partially diluted mixture (1:2) of one part USG Durock™ Primer-Sealer to two parts potable water with a paint roller or push broom at a rate of 200-250 sq. ft./gal. (4.9-6.1 m²/L).
6. Allow primer to dry at least two hours, but not more than 18 hours, before pouring USG Durock™ Self-Leveling Underlayment. If 18 hours has passed and the underlayment has not been poured, recoat the subfloor with a partially diluted mixture (1:1) of one part USG Durock™ Primer-Sealer to one part potable water at a rate of 400-450 sq. ft./gal. (9.8-11.0 m²/L) and allow three hours for drying prior to underlayment application.

**AS A PRIMER FOR WOOD SUBFLOORS
AND USG STRUCTURAL PANELS**

1. Plywood or OSB; must meet APA Type 1 or 2 standards.
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™ Primer-Sealer must be maintained at a minimum of 50°F (10°C) for 48 hours before, during and after the job.
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 a partially diluted mixture (1:2) of one part USG Durock™ Primer-Sealer to two parts potable water with a paint roller or push broom at a rate of 300-350 sq. ft./gal. (7.4-8.6 m²/L).
7. Allow primer to dry at least two hours, but not more than 18 hours, before pouring USG Durock™ Self-Leveling Underlayment. If 18 hours has passed and the underlayment has not been poured, recoat the subfloor with a partially diluted mixture (1:1) of one part USG Durock™ Primer-Sealer to one part potable water at a rate of 400-450 sq. ft./gal. (9.8-11.0 m²/L) and allow three hours for drying prior to underlayment application.

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

1. Seal USG Durock™ Multi-Use Self-Leveling Underlayments prior to application of water-based adhesives, floor patches or mortars.
2. At the job site, USG Durock™ Primer-Sealer 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, paint, excess dust or other contaminants before application of USG Durock™ Primer-Sealer. The use of oil-based sweeping compounds is not recommended.
4. Underlayment must be dry prior to application of USG Durock™ Primer-Sealer. 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. (457 mm x 457 mm). Tape must seal all sides of plastic. After 16 hours, a lack of condensation or no noticeable darkening of USG Durock™ 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. Apply fully diluted primer (1:4) of one part USG Durock™ Primer-Sealer to four parts potable water at a rate of 400-450 sq. ft./gal. (9.8-11.0 m²/L). The USG Durock™ Primer-Sealer dilution can be sprayed or applied with a paint roller to the underlayment surface. Do not allow USG Durock™ Primer-Sealer to puddle. Do not overseal USG Durock™ Multi-Use Self-Leveling Underlayments.
6. Allow USG Durock™ Primer-Sealer to dry for three hours before installation of floor-covering products. Dry time will vary with drying conditions.
7. Consult your USG representative when applying uniform materials.
8. Priming the underlayment may not be required when using high-solids urethane adhesives for wood floor attachment. However, insuring that the underlayment is completely dry prior to wood floor attachment is especially critical.
9. Recommendations of the floor-covering and floor-covering adhesive manufacturers supercede these instructions.

NOTES/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 on water-soluble adhesive residues.
6. Do not use as a primer under dispersion wood floor adhesives.
7. If high-solids adhesives are used, do not seal USG Durock™ Multi-Use Self-Leveling Underlayments with USG Durock™ Primer-Sealer. Follow floor-covering manufacturers' recommendations for surface-sealing requirements.

PRODUCT DATA**MVER (ASTM F1869):** Up to 5 lbs./1,000 sq. ft./24 hrs. (2.3 kg/92.9 m²/24 hours)**RH (ASTM F2170):** Up to 80% RH**pH:** 9.0**Solids Content (Undiluted):** 58%**Calculated VOC Content (SCAQMD 1168):** 1.5 g/L**Approximate Coverage:**

Concrete/Nonporous Subfloors/USG Durock™ RH-100 No dilution:

Apply at a rate of 400-450 sq. ft./gal. (9.8-11.0 m²/L)

Highly Porous Subfloors/Shot-Blasted Concrete Partial dilution (1:2):

Apply at a rate of 200-250 sq. ft./gal. (4.9-6.1 m²/L)

Wood Subfloors and USG Structural Panels Partial dilution (1:2):

Apply at a rate of 300-350 sq. ft./gal. (7.4-8.6 m²/L)

USG Durock™ Multi-Use Self-Leveling Underlayments Surface Sealing Full dilution (1:4):

Apply at a rate of 400-450 sq. ft./gal. (9.8-11.0 m²/L)**Approximate Dry Time:** 2-3 hours**Packaging:** 1 gal. (3.79 L) jug, 5 gal. (18.93 L) pail, 53 gal. (200.63 L) drum**STORAGE**

Do not store USG Durock™ Primer-Sealer in freezing conditions. If material becomes frozen, allow to thaw to room temperature. If material is smooth and uniform, it can be used. If material is lumpy or has a “cottage cheese” appearance, dispose of material properly, following all local, state and federal regulations. During summer months, do not store sealer above 120 °F (49 °C). USG Durock™ Primer-Sealer has a shelf life of 12 months from the manufacture date.

CLEANUP

Clean tools with water before USG Durock™ Primer-Sealer dries. Use mineral spirits to clean dried sealer. Carefully read manufacturer's warnings and instructions before using mineral spirits.

SUBMITTAL APPROVALS**PRODUCT INFORMATION**

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

WARNING

May cause an allergic skin reaction. Avoid breathing mist or vapor. Use only in a well-ventilated area, wear a NIOSH/MSHA-approved respirator. Wear protective gloves/protective clothing/eye protection. If on skin: Wash with plenty of water. If skin irritation or rash occurs, or if swallowed: Get medical attention. If eye contact occurs, flush thoroughly with water for 15 minutes. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Dispose of in accordance with local, state and federal regulations. Keep containers closed when not in use. For more information call Product Safety: 800 507-8899 or see the SDS at usg.com.

KEEP OUT OF REACH OF CHILDREN.**TRADEMARKS**

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NOTE

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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.

Job Name	
Contractor	Date

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