

USG
Gypsum
Solutions

**USG DUROCK™ BRAND
FLOOR PREP
PORTFOLIO BROCHURE**

**SELF-LEVELING PRODUCTS |
PATCHES & SKIM COATS | PRIMERS &
SEALERS | MOISTURE MITIGATION |
FLOOR-COVERING ADHESIVE**



IT'S YOUR WORLD. BUILD IT.®

TABLE OF CONTENTS

USG DUROCK™ BRAND PRODUCTS

INTRODUCTION/ICON LEGEND 3

SELF-LEVELING PRODUCTS

USG DUROCK™ MULTI-USE Series 4
USG DUROCK™ PROFLOW™ 4
USG DUROCK™ PWT™ PRO 4
USG DUROCK™ QUIK-TOP™ Series 4
USG DUROCK™ ULTRACAP™ Series 5
SELF-LEVELING PRODUCTS SELECTOR CHART 5

* **NOTE** Series may include Fiber-Reinforced (FR) and/or Pro products

PATCHES AND SKIM COATS

USG DUROCK™ ADVANCED SKIM COAT™ FLOOR PATCH 6
USG DUROCK™ ADVANCED SKIM COAT™ PLUS FLOOR PATCH 6
USG DUROCK™ NE FLOOR PATCH 6
USG DUROCK™ TUF-SKIM™ FLOOR PATCH 6
USG DUROCK™ MATRIX™ BOND ENHANCER 7
PATCHES AND SKIM COAT SELECTOR CHART 8

PRIMERS AND SEALERS

USG DUROCK™ FUSION™ PRIMER 9
USG DUROCK™ PRIMER-SEALER 9

MOISTURE MITIGATION

USG DUROCK™ COVERPREP MOISTURE VAPOR REDUCER 9
USG DUROCK™ RH-100™ MOISTURE VAPOR REDUCER 9

FLOOR-COVERING ADHESIVE

USG DUROCK™ GENIUS™ FLOORING ADHESIVE 10

GYPSUM SOLUTIONS

DAMAGED GYPSUM UNDERLAYMENT REPAIR 11

USG DUROCK™ FLOOR PREP PORTFOLIO

USG offers professional grade floor prep solutions for the most demanding installations. Find **USG Durock™ Brand Floor Prep** products for residential, commercial and renovation projects nationwide through our distribution network.

An extended warranty may apply when using USG Durock™ Floor Prep products in a system application, contact USG for further details.

ICON LEGEND

-  **Low Prep Underlayments** Prime and pour. In just two steps, USG Durock™ Low-Prep Underlayments provide Strength Beneath the Surface™ featuring compressive strengths that exceed those of conventional concrete.
-  **Fiber-Reinforced (FR) Underlayments** How do you improve USG underlayments? By reinforcing them. USG Fiber Reinforced (FR) engineered cementitious underlayments are cost-effective reinforcement solutions that provide a smooth surface with improved impact resistance, enhanced crack reduction and further propagation reduction, and improved load distribution.
-  **Fast Track** When time is of the essence, consider USG Fast Track products for quick return to service.
-  **Wear Surface** Properly poured and dried underlayments that can be used as a wear surface with an appropriate coating.
-  **Moisture Tolerant** Approved for high-moisture applications; designated products help mitigate moisture in concrete subfloors.
-  **High Recycled Content** USG Levelrock® Green floor underlayments are made with recaptured gypsum via a process that greatly reduces emissions of sulfur dioxide which helps reduce harmful acid rain. This use of recaptured gypsum also eliminates the need to dispose of the material in landfills as a solid waste.
-  **UL Classified** in 130+ assemblies. All USG 1- and 2-hour rated floor assemblies are designed to meet the International Building Code (IBC) and feature USG Levelrock® and USG Durock™ gypsum-based underlayments and floor patches.
-  **GREENGUARD Gold** This product has been tested and qualifies as a “Low Emitting” material per California Department of Public Health CDPH/EHLB/Standard Method (CA Section 01350) for school classroom and private office modeling scenarios, and contributes towards USGBC’s LEED® v4 emission requirements.
-  **Pro** For large scale projects, adding approved sand onsite to USG Durock™ Pro Series Self-Leveling Products creates less waste and yields significant material savings. In addition, only minimal surface preparation is required for most products.

SELF-LEVELING PRODUCTS

USG DUROCK™ MULTI-USE SELF-LEVELING UNDERLAYMENT Series



- Versatile, superior poured underlayment for multiple applications
- UL Classified and specified for use in 130+ assemblies
- Fast application and fast setting allows for return of light traffic within hours
- No mechanical preparation required for most applications
- Ideal for wood frame, renovation and light commercial construction and radiant heat installations
- Meets resilient floor industry specifications for underlayment under commercial goods (ASTM F710)
- Exceptionally smooth, crack-resistant surface
- Helps maximize sound isolation between floors/units
- Also offered in an un-sanded formulation
- GREENGUARD Gold Certified for low VOC emissions

USG DUROCK™ PROFLOW™ SELF-LEVELING UNDERLAYMENT



- Ideal for commercial, institutional and renovation construction
- Self-leveling properties speed production and provide a smooth, crack-resistant surface
- Fast application and setting times facilitate return of light trade traffic within hours
- Featheredge to 3 in. thick
- No mechanical preparation required for most applications
- May be used as a decorative wear surface with an appropriate coating system
- GREENGUARD Gold Certified for low VOC emissions

USG DUROCK™ PWT™ PRO SELF-LEVELING TOPPING



- Self-leveling, polishable wear topping
- Specially formulated to suspend and expose coarse aggregates during the polishing process
- Hybrid un-sanded cementitious formula can be used as a topping with wear surface qualities equal to concrete
- Ideal for pre-cast concrete or concrete applications
- Can be stained to create unique aesthetic designs
- GREENGUARD Gold Certified for low VOC emissions

USG DUROCK™ QUIK-TOP™ SELF-LEVELING UNDERLAYMENT Series



- Premium poured underlayment product with self-drying technology
- UL Classified and specified for use in 130+ assemblies
- No mechanical preparation required for most applications
- Apply floor covering in as little as 15 hours after underlayment application
- Compressive strength up to 10,000 psi (68.9 MPa) with self-sealing technology
- Featheredge to 3 in. (.76 mm) thickness
- Suitable for most floor coverings
- Can be stained, polished or used by itself as a finished floor with an appropriate coating system
- Available in white or gray and white fiber-reinforced (FR) formulations
- GREENGUARD Gold Certified for low VOC emissions

SELF-LEVELING PRODUCTS

USG DUROCK™ ULTRACAP® SELF-LEVELING UNDERLAYMENT Series



- Portland cement-based poured underlayment; ideal over concrete and wood subfloors
- Fast application and fast setting allow for quick return of normal trade traffic
- May be used as a decorative wear surface with an appropriate coating system
- Can be stained integrally or topically using a tested concrete stain or dye
- Smooth, crack-resistant surface
- No mechanical preparation required for most applications
- Also offered in un-sanded formulation
- GREENGUARD Gold Certified for low VOC emissions

SELECTOR CHART

SELF-LEVELING PRODUCTS

Product	Approximate Compressive Strength (psi)	Approximate Coverage at 1/4 in.	Thickness Range ^(d)	Depth When Extended	Working Time (min.)	Install Tile & Breathable Floor Coverings	Install Non-Breathable/Moisture Sensitive Flooring
USG Durock™ Multi-Use Self-Leveling Underlayment ^(a, b, c)	3,500 – 4,500 (24.1 - 31.0 MPa)	22 sq. ft.	3/8 in. - 3 in.	5 in.	20	5-10 days @ 3/4 in.	5-10 days @ 3/4 in.
USG Durock™ ProFlow™ Self-Leveling Underlayment ^(a, b, c)	6,000 – 8,000 (41.4 - 55.2 MPa)	22 sq. ft.	FE - 1 in.		15	2-5 days	2-5 days
USG Durock™ PWT™ Pro Self-Leveling Topping	5,000 – 7,000 (34.5 - 48.3 MPa)	80 sq. ft.	3/8 in. - 3 in.		15	n/a	n/a
USG Durock™ Quik-Top™ Self-Leveling Underlayment ^(a, b, c)	7,000 – 10,000 (48.3 - 68.9 MPa)	22 sq. ft.	FE - 3 in.	5 in.	25	15 hours	15 hours
USG Durock™ UltraCap® Self-Leveling Underlayment ^(c)	4,500 – 5,500 (31.0 - 37.9 MPa)	23 sq. ft.	FE - 2 in.	5 in.	25	12 hours	2-3 days

Notes

- a. No mechanical preparation required for most applications.
 b. UL Classified for use in fire rated assemblies.
 c. May include Fiber-Reinforced (FR) and/or Pro products.
 d. FE = featheredge

PATCHES AND SKIM COATS

USG DUROCK™ ADVANCED SKIM COAT™ FLOOR PATCH



- Versatile floor patch for use over various subfloors including concrete, wood and gypsum
- Provides a smooth finish
- Fast drying – install floor covering in as little as 15 minutes
- Featheredge to 1/2 in. thick in large areas; any thickness in small well-defined areas
- May be retempered multiple times without the addition of water to extend working time
- No priming necessary for most applications
- May be used as an embossing leveler when mixed with USG Durock™ Matrix™ Bond Enhancer
- GREENGUARD Gold Certified for low VOC emissions

USG DUROCK™ ADVANCED SKIM COAT™ PLUS FLOOR PATCH



- Highly moisture-tolerant skim coat and floor patch
- Provides a smooth finish over concrete subfloors
- Designed for high moisture applications – up to 12 lbs. MVER, 11 pH and 99% RH
- Fast drying – install floor covering in as little as 15 minutes
- Install from featheredge to 1/2 in. (13 mm)
- Easy to mix; may be retempered multiple times without the addition of water to extend working time
- No priming necessary for most applications

USG DUROCK™ NE FLOOR PATCH



- Versatile, trowelable cementitious patching compound for skim coating and ramping
- For interior use over concrete and approved wood subfloors
- Fast setting—floor coverings may be installed in as little as one hour
- Featheredge to 2 in. thick
- No priming necessary for most applications
- Polymer modified—promotes early strength and workability
- Easy to mix and apply
- GREENGUARD Gold Certified for low VOC emissions

USG DUROCK™ TUF-SKIM™ FLOOR PATCH



- Trowelable high early strength floor repair patch
- UL Classified for use in 130+ assemblies
- Install floor covering in as little as 30 minutes
- Fast-setting with an exceptionally strong bond and no shrinkage
- Approximate 6,000 psi
- Featheredge to 1/2 in. thick in large areas; any thickness in small, well-defined areas
- Reduced water demand for quicker drying time
- Easy mixing, smooth finish
- No priming necessary over most surfaces



Moisture Tolerant Approved for high-moisture applications; designated products help mitigate moisture in concrete subfloors.

PATCHES AND SKIM COATS

USG DUROCK™ MATRIX™ BOND ENHANCER



- High performance bond-enhancing liquid additive
- May be used as an embossing leveler when mixed with USG Durock™ Brand Floor Patches
- Increases flexibility
- Improves adhesion and crack resistance
- Easy to mix and apply
- Improved floor patch coverage rates

SELECTOR CHART

PATCHES AND SKIM COATS

Product	Package	Approximate Coverage at 1/8 in. (3.2 mm)	Thickness Range ^(b)	Working Time (min.)	Install Flooring (min.) ^(d)
USG Durock™ Advanced Skim Coat™ Floor Patch ^(a)	9 lb. (4.0 kg) bag	38 sq. ft. (3.5 m ²)	FE - 1/2 in. (13 mm); any thickness in small, well-defined areas	10 - 15 ^(c)	15 - 25
USG Durock™ Advanced Skim Coat™ Plus Floor Patch ^(a)	10 lb. (4.5 kg) bag	36 sq. ft. (3.3 m ²)	FE - 1/2 in. (13 mm); any thickness in small, well-defined areas	10 - 15 ^(c)	15 - 25
USG Durock™ NE Floor Patch ^(a)	50 lb. (22.6 kg) bag	78 sq. ft. (7.2 m ²)	FE - 1/2 in. (13 mm)	10 - 20	60 - 70
USG Durock™ Tuf-Skim™ Floor Patch ^(a)	25 lb. (11.3 kg) bag	48 sq. ft. (4.5 m ²)	FE - 1/2 in. (13 mm); any thickness in small, well-defined areas	10 - 25	30 - 60

Notes

- a. May be used with USG Durock™ Matrix™ Bond Enhancer.
- b. FE = featheredge
- c. May be retempered multiple times without addition of water.
- d. Depending on thickness and drying conditions. See submittals for drying requirements when using specialty adhesives and for installation of wood floor coverings.

USG Durock™ Matrix Bond Enhancer is a liquid additive that improves flexibility and adhesion, as well as impact resistance and coverage rates. When mixed with these patching compounds, the material can be applied over most interior floor coverings, including ceramic and quarry tile, terrazzo, wood and interior concrete, as well as properly prepared residues of cutback and other non-water-soluble adhesives on concrete and epoxy coatings.

Product	Mix Design	USG Durock™ Matrix™ Bond Enhancer	Coverage at 1/32 in. (.8 mm)
USG DUROCK™ MATRIX™ BOND ENHANCER – RATIOS			
USG Durock™ Advanced Skim Coat™ Floor Patch	9 lb. (4.0 kg) bag	2.5 qt. (2.3 L)	Up to 180 sq. ft. (16 m ²)
	5 parts by volume	2 parts by volume	
USG Durock™ NE Floor Patch	50 lb. (22.6 kg)	7.0 qt. (6.6 L)	Up to 300 sq. ft. (27.9 m ²)
	3 parts by volume	1 part by volume	
USG Durock™ Tuf-Skim™ Floor Patch	25 lb. (11.3 kg)	3.25 qt. (3.1 L)	Up to 260 sq. ft. (24.1 m ²)
	3 parts by volume	1 part by volume	

PRIMERS AND SEALERS

USG DUROCK™ FUSION™ PRIMER



- Two-component waterborne epoxy
- Ideal for surface consolidation of compromised gypsum underlayments
- Superior penetration and tenacious bond to gypsum underlayments
- May be applied to freshly poured USG gypsum-based underlayments two hours after set as a surface treatment
- Meets ASTM C309 requirement for use as a concrete curing compound
- May be used as a urine resistant primer
- Low VOC and low odor
- Fast dry time

USG DUROCK™ PRIMER-SEALER



- 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
- Compliance tested by Berkeley Analytical; qualifies as a low VOC emitting material (meets CA 01350)

MOISTURE MITIGATION

USG DUROCK™ COVERPREP MOISTURE VAPOR REDUCER



- Universal low-prep moisture vapor barrier
- For use over concrete; chemically abated slabs, properly secured VCT and ceramic tiles; existing and cut-back adhesives
- Addresses MVER rates up to 14 lbs. per ASTM F1869, up to 25 lbs. with a two-coat application
- No mechanical preparation required for most applications
- Manages up to 14 Ph

USG DUROCK™ RH-100™ MOISTURE VAPOR REDUCER



- Two-part epoxy moisture mitigation system
- For use over concrete subfloors with up to 100% RH and pH up to 14
- 100% solids epoxy mitigation system with zero VOCs
- Exceeds the performance requirements in ASTM F3010
- Perm rating (ASTM E96): <.10



Moisture Tolerant Approved for high-moisture applications;

designated products help mitigate moisture in concrete subfloors. USG Floor Prep Portfolio | 9

FLOOR-COVERING ADHESIVE

USG DUROCK™ GENIUS™ FLOORING ADHESIVE



- Universal pressure sensitive floor-covering adhesive with high shear bond
- Install any carpet, resilient flooring covering or sport flooring and non-patterned broadloom
- For use on all grades of concrete (on, above or below grade), metal, wood, fiberglass and terrazzo
- Tolerates up to 99% RH (ASTM F-2170); up to 10 lbs. MVER (ASTM F-1869); and pH levels up to 12 (ASTM F-710)
- Variable working time – 20 minutes to hours
- Superior coverage rates

DAMAGED GYPSUM UNDERLAYMENT REPAIR

Existing gypsum underlayment that exhibits specific defects such as a soft and chalky surface, cracks and low strength (both tensile and compressive), will need appropriate repairs prior to installing a new floor covering. To repair damaged gypsum floors and maintain their fire rating, look to USG.

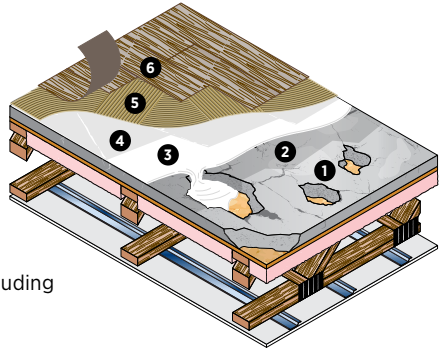
Our gypsum-based underlayments and floor patches are UL Classified and specified for use in 130+ fire-rated assemblies. We offer both a trowelable and a pourable solution. For detailed instructions, please see *USG Rehabilitation Guidelines for Damaged Gypsum Underlayments* (CB822) at usg.com or contact your USG Technical Sales Representative.

Step #1: Prepare existing underlayment

- Determine structural soundness
- Scrape and remove adhesives
- Remove loose debris and vacuum

Step #2: Apply USG Durock™ Brand Fusion™ Primer¹

- If the surface is soft, chalky and/or a low-strength gypsum underlayment, then a liberal coating of USG Durock™ Fusion Primer over the entire gypsum surface – including any exposed plywood or OSB – is required.



Step #3: Resurface

Trowel USG Durock™ Tuf-Skim™ Floor Patch

OR

Pour USG Durock™ Quik-Top™ Series or Multi-Use Series Self-Leveling Underlayment

Step #4: Apply USG Durock™ Brand Primer-Sealer

- USG Durock™ Multi-Use Self-Leveling Underlayment must be sealed with USG Durock™ Primer-Sealer prior to floor covering adhesive application.
- For tile applications using Portland cement-based mortars over USG Durock™ Tuf-Skim Floor Patch, USG Durock™ Multi-Use Self-Leveling Underlayment or USG Durock™ Quik-Top™ Self-Leveling Underlayment, an application of USG Durock™ Primer-Sealer is required.
- If the floor-covering or adhesive manufacturer's sealing requirements are more stringent, their requirements take precedence.

Step #5: Apply floor-covering adhesive

Step #6: Apply new floor covering

Note

1. Allow USG Durock™ Fusion Primer to cure for a minimum of 4 hours, but not more than 8 hours, before installation of the recommended USG Durock™ Self-Leveling Underlayment or USG Durock™ Tuf-Skim Floor Patch. Underlayment or patch application after 8 hours will require an application of USG Durock™ Primer-Sealer prior to pouring.

CONTACT INFORMATION

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Chicago, IL 60661

PRODUCT INFORMATION

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

CUSTOMER SERVICE

800 621-9523

TECHNICAL SERVICE

800 USG.4YOU (874-4968)

WEBSITES

usg.com

usg.com/floorprep

usg.com/repair

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SAFETY FIRST!

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

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