



USG DUROCK™ BRAND FAST FINISH FLOOR PATCH

Versatile, trowelable cementitious floor patch and skim coat

- Ideal over concrete, gypsum, metal and wood subfloors and most interior floors, including tile
- Innovative formulation offers significant yield advantage vs. competitive products
- No priming necessary over most surfaces
- Featheredge to 1/2 in. thick in large areas; any thickness in small well-defined areas such as thresholds and concave-shaped depressions in substrates
- Easy mixing and smooth finish over various substrates

DESCRIPTION

USG Durock™ Brand Fast Finish Floor Patch is a versatile cementitious floor patch and skim coat for interior use over wood, concrete and gypsum subfloors. Its versatility allows USG Durock™ Fast Finish floor patch to be used over most interior floors, 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. Simply mix USG Durock™ Fast Finish floor patch with water and apply with a trowel—no need for priming or a latex additive for most applications.

VOC EMISSIONS

USG Durock™ Brand Fast Finish Floor Patch is defined as a “Low Emitting” material per California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010 (CA Section 01350) for school classroom, single-family residence, and private-office modeling scenarios, and meets USGBC’s LEED® v4 emission requirements.

EXCLUSIVE 10-YEAR LIMITED SYSTEM WARRANTY

A 10-year limited system warranty applies when using USG Durock™ Fast Finish floor patch and an XL Brands® manufactured adhesive. When used in a nonsystem application, USG Durock™ Fast Finish has a one-year limited warranty. For more information regarding the USG/XL Brands® 10-Year Limited Warranty, refer to *USG Durock™ Brand Fast Finish Floor Patch In Conjunction With XL Brands® Adhesives* (CB715) at usg.com.

INSTALLATION SUBFLOOR PREPARATION

All subfloors must be structurally sound, stable and solid. If there is any question about the structural soundness of the subfloor, consult with the engineer on the project or request the services of a professional structural engineer.

Subfloors must be clean and free of dirt, tar, wax, oil, grease, latex compounds, sealers, curing compounds, release agents, asphalt, water-soluble adhesives, paint, chemicals, loose old cementitious products, joint compounds from drywall installation or any other contaminant that might prevent proper bonding of USG Durock™ Fast Finish floor patch to the host substrate.

TOOLS

- Mixing bucket
- Trowels
- Razor scraper
- Mixing drill type 2 through 7—as outlined in the *Technical Guidelines* prepared by the International Concrete Repair Institute, *Pictorial Atlas of Concrete Repair Material Mixing Equipment* (Guideline No. 320.5R-2014).
- Mixing paddle type 2, 3, 4, 8 or 9—as outlined in the *Technical Guidelines* prepared by the International Concrete Repair Institute, *Pictorial Atlas of Concrete Repair Material Mixing Equipment* (Guideline No. 320.5R-2014).

MIXING RATIO

Two parts USG Durock™ Fast Finish floor patch to one part water by weight, or 2.5 quarts (2.3 liters) of water per one 10 lb. bag of USG Durock™ Fast Finish floor patch.

INSTRUCTIONS

USG Durock™ Fast Finish floor patch provides a smooth surface over interior concrete and gypsum or wood subfloors prior to applying floor coverings. USG Durock™ Fast Finish floor patch may also be applied over interior ceramic and quarry tile, concrete, masonry, terrazzo and wood. To mix a 10 lb. bag of USG Durock™ Fast Finish floor patch, first add 2.5 quarts (2.3 liters) of clean water to a mixing bucket, then add the USG Durock™ Fast Finish floor patch. Mix with a paddle and drill. To mix smaller quantities by hand, use two parts USG Durock™ Fast Finish floor patch to one part water by weight. Mix vigorously for 2 to 3 minutes with a trowel to achieve a lump-free consistency. Do not overwater.

Use USG Durock™ Fast Finish floor patch within 10–15 minutes after mixing. Remix (without adding water) as needed within this time frame. Dispose of any USG Durock™ Fast Finish floor patch once setting has occurred.

APPLICATION

During application and until USG Durock™ Fast Finish floor patch is set (typically within 15–30 minutes), close all doors, windows and other openings in the building and turn off HVAC systems to prevent air drafts. Protect installation areas from direct sunlight exposure during setting time. Thereafter, the HVAC system can resume, as well as the use of doors, windows and other openings.

The subfloor, room temperature and USG Durock™ Fast Finish floor patch product—either mixed or in powdered form—must be between 50°F and 95°F at the time of application and for 72 hours after installation of USG Durock™ Fast Finish floor patch. For temperatures above 95°F, consult USG.

It is recommended to patch several small test areas before conducting full installation of USG Durock™ Fast Finish floor patch. The test areas must also include finish flooring to establish suitability of the complete system for intended use.

USG Durock™ Fast Finish floor patch has a working time of approximately 10–15 minutes at 70°F. At higher temperatures the working time is shortened; at lower temperatures the working time is extended.

CONCRETE SUBFLOORS

Concrete subfloors receiving cementitious underlayment systems must be cured properly (generally for a minimum of 28 days) prior to underlayment installation. Subfloor Moisture Vapor Emission Rate (MVER) exceeding 5 lbs./1,000 sq. ft./24 hours per ASTM F1869 must be treated with an appropriate moisture mitigation system that either limits the flooring system's moisture vapor exposure to acceptable levels or completely stops the vapor transmission through the top of the subfloor. USG Durock™ Fast Finish floor patch is not a vapor barrier. Transmission of excessive moisture vapors from the concrete subfloor through USG Durock™ Fast Finish floor patch can interfere with floor-covering adhesives and compromise their performance. Apply an industry-recognized moisture mitigation system such as USG Durock™ Brand RH-100™ Moisture Vapor Reducer per manufacturer recommendations to achieve an MVER value of 5 lbs./1,000 sq. ft./24 hours or less. Ensure compatibility of the moisture mitigation system with the USG Durock™ Fast Finish floor patch by a test application in small areas. Contact USG Technical Service at 800 874-4968 for further information regarding suitable moisture mitigation products and systems for use with USG Durock™ Fast Finish floor patch.

Weak or degraded concrete surface layer must be removed mechanically to provide a solid base. To decide whether mechanical preparation of substrate is required or not, the concrete substrate must be thoroughly assessed for its quality and tensile strength over the entire application area. The assessment of concrete tensile strength must be made in its existing state without the removal of any foreign material that may be present on the concrete surface. Simple visual appearance of the concrete substrate as strong and solid does not necessarily guarantee that the concrete substrate is free of impurities and has the right tensile strength.

Concrete exhibiting signs of laitance (a layer of weak material on the concrete surface either visible or invisible), scaling, spalling, crumbling or delamination must be mechanically removed to achieve a solid and clean substrate. Prior to installation of the underlayment, mechanically profile concrete subfloor to a minimum of CSP 3, in accordance with the industry standards as outlined in International Concrete Repair Institute (ICRI) Technical Guideline No. 310.2 *Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays*. Use mechanical removal methods such as shot blasting, scarifying or diamond grinding to clean and prepare the concrete subfloor contaminated with adhesives, asphalt or oil. Shot blasting is the preferred method of mechanically profiling and preparing the concrete subfloor for the application of USG Durock™ Fast Finish floor patch.

Cracks in the existing concrete subfloor must be inspected to determine if the crack is due to typical concrete “shrink” or if it is a result of a structural movement. In the case of the latter, remediation of the crack must be addressed or eventually the crack will telegraph through USG Durock™ Fast Finish floor patch. Repair all existing cracks in old and new concrete to minimize and

CONCRETE SUBFLOORS CONT.

control their ability to telegraph through the layer of USG Durock™ Fast Finish floor patch. Remove the weak concrete along the length of the cracks by chiseling or other suitable means. Remove accumulated dust and debris from the crack cavities using a vacuum or other suitable means. Various cracks present in the concrete subfloor, including shrinkage cracks, must be filled with a suitable commercially available crack-fill epoxy adhesive designed for concrete flooring applications. To ensure superior resistance to crack growth, use injection epoxy crack-repair techniques per manufacturer guidelines to repair cracks that are active or deep.

Note that repair of existing cracks in the concrete subfloor only subdues but does not completely prevent their ability to telegraph through USG Durock™ Fast Finish floor patch. Growth of existing cracks or formation of new cracks in the concrete subfloor can lead to cracks telegraphing through USG Durock™ Fast Finish floor patch. Respect existing expansion and control joints. (See Notes/Limitations #8, pg. 5)

GYPSUM UNDERLAYMENTS

USG Durock™ Fast Finish floor patch can be used over gypsum underlayments. Existing gypsum underlayments must be solid with no cracks and be dust free. Underlayment must be sealed with USG Durock™ Brand Primer-Sealer, 3E™ Primer or X2 Primer-Sealer. First test surface hardness by scratching existing underlayment with a coin. If surface can be gouged, do not use USG Durock™ Fast Finish floor patch and consult USG for alternative repair methods.

METAL SUBFLOORS

Ensure that metal subfloors are structurally sound, stable, well supported, rigid, properly anchored and free of undue flex and vibration. (See Notes/Limitations #20, pg. 6. Also note that the design criteria for metal deck selection is so the live load deflection does not exceed L/480.) Metal subfloors must be clean and free of rust, corrosion or any contaminant that might prevent proper bonding of USG Durock™ Fast Finish floor patch to the metal subfloor.

Paint steel surfaces with an anti-corrosive coating to prevent rust from recurring. Allow coating to dry thoroughly. Follow coating manufacturer's instructions, including cure time. An anti-corrosive coating is not necessary for aluminum, copper and lead subfloors.

Next, prime the prepared metal subfloor with USG Durock™ Primer-Sealer. Mix and apply USG Durock™ primers per their corresponding installation instructions. After the USG Durock™ primer has dried, USG Durock™ Fast Finish floor patch may be applied.

WOOD SUBFLOORS

USG Durock™ Fast Finish floor patch can be applied over engineer-approved, APA-Rated exterior glue plywood or oriented strand board (OSB) (i.e., APA-Rated Exterior or Exposure 1 panels) wood subfloors. Subfloor must be properly prepared. See Notes/Limitations, pg. 5, #20 for subfloor deflections.

SPECIALTY APPLICATIONS

Check the existing subfloor requirements (see Application section) before applying USG Durock™ Fast Finish floor patch in a specialty application.

ADHESIVE RESIDUES

USG Durock™ Fast Finish floor patch can be installed over non-water-soluble adhesives on concrete only. The adhesive residue must first be tested to make certain it is non-water-soluble. Any water-soluble adhesive residues must be mechanically removed down to clean concrete. Non-water-soluble adhesive residues should be prepared to a thin, well-bonded residue using the "wet-scraping" technique as recommended by the Resilient Floor Covering Institute's (rfci.com) *Recommended Work Practices for Removal of Resilient Floor Coverings* to remove thick areas and adhesive buildup, as well as any areas that are weak or not well bonded to the concrete. Any existing patches below the adhesive must be completely removed.

CUTBACK ADHESIVE RESIDUES

To use USG Durock™ Fast Finish floor patch over cutback adhesive residue, first remove all loose debris from the cutback. Spread dry USG Durock™ Fast Finish floor patch over the cutback adhesive, then work the dry powder into the floor with a broom. Next, use a razorblade scraper to scrape the cutback down to a very thin thickness and allow to thoroughly dry prior to the application of USG Durock™ Fast Finish floor patch to the area. Skim coat the area with properly prepared USG Durock™ Fast Finish floor patch.

EPOXY COATINGS

All epoxy coatings must be solidly bonded to the existing substrate and be clean and sound. Weak or degraded concrete surface layer must be removed mechanically to provide a solid base. See Application, Concrete Subfloors on pg. 2 for further information.

After a solid base has been achieved, prime the epoxy with a USG Durock™ Brand primer. Mix and apply USG Durock™ Primer-Sealer or 3E Primer as instructed in *USG Durock™ Brand Primer-Sealer* submittal sheet (CB519) or *USG Durock™ Brand 3E™ Primer* submittal sheet (CB658). After USG Durock™ primer has dried, USG Durock™ Fast Finish floor patch may be applied.

FLOOR-COVERING INSTALLATION

- A skim coat application of USG Durock™ Fast Finish floor patch can be walked on 15–30 minutes after set; allow 30–45 minutes after set for applications of 1/2 in. to 1 in.
 - Floor coverings such as ceramic tile, VCT, sheet vinyl and carpeting can be installed 15–30 minutes after USG Durock™ Fast Finish skim coat sets; allow 30–45 minutes after set for applications of 1/2 in. to 1 in.; or as soon as USG Durock™ Fast Finish floor patch can be worked on without damaging the surface. Nonbreathable floor coverings requiring special adhesives that are sensitive to moisture; high-performance adhesives such as urethanes or epoxies; and wood flooring can be installed after 16 hours.
 - Drying time is dependent on job site temperature and humidity conditions as well as thickness of application. For example, high humidity and/or low substrate temperatures will extend dry times.
 - Check with floor-covering and adhesive manufacturers for installation guidelines and suitability of their manufactured products over USG Durock™ Fast Finish floor patch.
 - Protect the surface of USG Durock™ Fast Finish floor patch from contaminants and water until installation of floor covering is accomplished.
 - Perform field bond test to determine adhesive/flooring performance over USG Durock™ Fast Finish floor patch. Install floor covering with adhesive and perform field bond test approximately 72 hours after installation.
 - Follow floor-covering manufacturers' recommendations for surface-sealing requirements. If the floor-covering or adhesive manufacturer requirements are more stringent, their requirements take precedence.
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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 over dimensionally unstable, improperly prepared, weak subfloors.
5. Do not install over concrete subfloor less than 28 days old. For untreated (without an approved moisture mitigation system) concrete subfloors less than 28 days old, contact USG.
6. For below-grade applications, contact USG.
7. Do not use over sound mat.
8. Do not use over expansion or isolation joints. Continue all movement joints in the concrete slab up through the layer of underlayment. In areas where the expansion or isolation joints are not present in the floor or where the concrete slab has developed systematic cracks in response to slab movement, consult with an engineer on the project or request services of a professional structural engineer to provide such joints as part of the system in accordance with engineering requirements and industry standards.
9. Existing cracks in the new and old concrete must be repaired with an appropriate crack-repair material in accordance with industry recommendations prior to installation of USG Durock™ Fast Finish floor patch. Note that repair of existing cracks in the concrete subfloor only subdues but does not completely prevent their ability to telegraph through USG Durock™ Fast Finish floor patch. Growth of existing cracks or formation of new cracks in the concrete subfloor can lead to cracks telegraphing through the poured underlayment.
10. 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. USG Durock™ Fast Finish floor patch is not a vapor or moisture barrier. Transmission of excessive water vapors or moisture from the concrete subfloor through the USG Durock™ Fast Finish floor patch can interfere with floor-covering adhesives and compromise their performance.
11. For on-grade applications, use an industry-recognized moisture mitigation system such as USG Durock™ RH-100 Moisture Vapor Reducer over concrete. Moisture mitigation system may not be needed if a vapor retarder is installed below the concrete slab in accordance to industry specifications and practice (ASTM E1745, ASTM E1993 and ASTM E1693) and the MVER value of the concrete slab is below 5 lbs./1,000 sq. ft./24 hours.
12. Do not use acid etching as a method of cleaning and preparing the concrete subfloor.
13. Do not use oil-based sweeping compounds to clean and prepare the concrete subfloor. Use of such sweeping compounds leaves an oil film on the surface of the concrete that will interfere with the underlayment's bond development. Use vacuum, compressed air or a dry broom to remove the dust and debris and prepare the subfloor for USG Durock™ Fast Finish floor patch application.

NOTES/LIMITATIONS CONT.

14. Do not use adhesive-removing chemicals or solvents to eliminate contaminants from the concrete subfloor. Use of such chemicals can transport oil, grease and other contaminants further into the concrete pores. These chemicals can be released back to the surface at a later time to interfere with the floor-covering adhesives, thus compromising the bond performance with USG Durock™ Fast Finish floor patch. Mechanically removing the organic adhesives, asphalt, coal-tar-based adhesives and other oil-based contaminants is the sole recommended method of preparing the subfloor for application of USG Durock™ Fast Finish floor patch.
15. For applications over materials containing asbestos, contact USG. Do not mechanically remove organic adhesives, asphalt, coal-tar-based adhesives or other materials containing asbestos.
16. Do not overwater or overmix.
17. Do not add any chemical additives or polymers to USG Durock™ Fast Finish floor patch.
18. Do not use wet curing or curing compounds. Existing curing compounds on concrete surfaces must be removed. Shot blasting is the only recommended method of removal.
19. Do not mix with other cementitious products or self-leveling materials.
20. Structure shall be designed so deflection does not exceed L/240 from combined dead and live loads and L/360 from live loads. Certain floor coverings such as marble, limestone, travertine and wood may have more restrictive deflection limits. Consult the appropriate floor-covering manufacturer.
21. Existing gypsum underlayments must be solid with no cracks and dust free. Gypsum underlayment must be sealed with USG Durock™ Primer-Sealer, 3E Primer or X2 Primer-Sealer. First test surface hardness by scratching existing underlayment with a coin. If surface can be gouged, do not use USG Durock™ Fast Finish floor patch and consult USG for alternative repair methods.

PRODUCT DATA

PRODUCT INFORMATION

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

DANGER!

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer by inhalation of respirable crystalline silica. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Use only in a well-ventilated area, wear a NIOSH/MSHA-approved respirator. Wear protective gloves/protective clothing/eye protection. If swallowed, inhaled, or skin irritation occurs get medical attention. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing. 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.

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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NOTICE

We shall not be liable for incidental or consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instruction or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

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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Mixing Ratio: 10 lb. bag USG Durock™ Fast Finish floor patch to 2.5 quarts (2.3 liters) of water (2 parts USG Durock™ Fast Finish floor patch to 1 part water by weight)

Approximate Coverage:

Up to 80 sq. ft./bag at 1/16 in. thickness

Up to 40 sq. ft./bag at 1/8 in. thickness

20 sq. ft./bag at 1/4 in. thickness

Approximate Working Time: 10–15 minutes

Approximate Set Time: 15–30 minutes

Approximate Walkable (light foot traffic):

15–30 minutes (after set)

30–45 minutes (after 1/2 in. to 1 in. application set)

Thickness Range: Featheredge to 1/2 in. thick in large areas; any thickness in small well-defined areas such as thresholds and concave-shaped depressions in substrates

Packaging: 10 lb. multiwall paper bags

Note: Physical characteristics published herein were achieved under controlled laboratory conditions. Actual field results may differ due to environmental conditions, inconsistent proportioning of field-applied water and USG Durock™ Fast Finish floor patch, as well as differences in mixing equipment.

STORAGE

USG Durock™ Fast Finish floor patch should be stored in an enclosed shelter providing protection from damage and exposure from the elements. During winter, dry mix material should be stored in a heated room before application, as deeply cooled material may increase the risk that some additives may not dissolve during mixing. If temperature is too high, premature setting may occur. Protect unused material by removing air from bag and sealing tightly. Remove damaged or deteriorated materials from the job site. USG Durock™ Fast Finish floor patch has a shelf life of 9 months from the manufactured date.

SUBMITTAL APPROVALS

Job Name	
Contractor	Date

Manufactured by
United States Gypsum Company
550 West Adams Street
Chicago, IL 60661

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