



# USG DUROCK™ BRAND MATRIX™ BOND ENHANCER

## High-performance bond-enhancing liquid additive

- Can be used as an embossing leveler when mixed with USG Durock™ Brand Advanced Skim Coat™ Floor Patch, NE Floor Patch, Tuf-Skim™ Floor Patch or X Floor Patch
- Increases flexibility
- Improves adhesion and crack resistance
- Easy to mix and apply
- Improved coverage rates

## DESCRIPTION

USG Durock™ Brand Matrix™ Bond Enhancer is a high-performance liquid additive, that when mixed with USG Durock™ Advanced Skim Coat™, NE, Tuf-Skim™ or X Floor Patch, creates a system that can be effectively used as an embossing leveler over most resilient flooring. Mixing USG Durock™ floor patches with USG Durock™ Matrix Bond Enhancer improves flexibility and adhesion properties of the floor patch. The embossing system can also be used 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.

## MIXING TOOLS

- Mixing bucket
- Trowels
- 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)

## RATIOS

Product	Mix Design	USG Durock™ Matrix™ Bond Enhancer	Coverage at 1/32 in. (.8 mm)
USG Durock™ Advanced Skim Coat™ Floor Patch	9 lb. (4.0 kg) bag	2.5 qt. (2.3L)	Up to 180 sq. ft. (16 m²)
	5 parts by volume	2 parts by volume	
USG Durock™ NE Floor Patch	25 lb. (11.3 kg)	3.5 qt. (3.3 L)	Up to 150 sq. ft. (14 m²)
	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 m²)
	3 parts by volume	1 part by volume	
USG Durock™ X Floor Patch	18 lb. (8.1 kg) bag	3 qt. (2.8 L)	Up to 198 sq. ft. (18 m²)
	3 parts by volume	1 part by volume	

## INSTRUCTIONS

Shake USG Durock™ Matrix Bond Enhancer container prior to mixing. In a mixing container, add the USG Durock™ floor patch powder to the prescribed amount of USG Durock™ Matrix Bond Enhancer liquid per the table above. Mechanically mix with a paddle and drill until a lump-free consistency is achieved. To mix smaller quantities, add the appropriate ratio of USG Durock™ floor patch powder to USG Durock™ Matrix Bond Enhancer liquid by volume. Mix together until a lump-free consistency is achieved. Do not add water.

Use the embossing mixture within 45 minutes. Remix (without adding water) as needed within this time frame. Dispose of mixed compound once setting has occurred.

## APPLICATION

The subfloor, room temperature and USG Durock™ Matrix Bond Enhancer liquid and floor patch product—either mixed or in liquid or powdered form—must be between 50 °F and 95 °F (10-35 °C) at the time of application and for 72 hours after installation of the embossing system. For embossing leveler application, skim coat the surface from featheredge up to 1/2 in. (12.6 mm); up to 1/4 in. (6.3 mm) for USG Durock™ Advanced Skim Coat Floor Patch.

Refer to the appropriate USG submittal sheet referenced below at usg.com for additional installation instructions.

- *USG Durock™ Brand Advanced Skim Coat™ Floor Patch submittal sheet* (CB805)
- *USG Durock™ Brand NE Floor Patch submittal sheet* (CB674)
- *USG Durock™ Brand Tuf-Skim™ Floor Patch submittal sheet* (CB832)
- *USG Durock™ Brand X Floor Patch submittal sheet* (CB816)

## FLOOR-COVERING INSTALLATION

Normal floor preparation procedures apply when installing floor covering over the USG Durock™ embossing system.

- Check with floor-covering and adhesive manufacturers for installation guidelines and suitability of their manufactured products over the USG Durock™ embossing system.
- For surfaces prepared with the USG Durock™ embossing system, floor coverings may be installed in as little as 90 minutes. Drying time is dependent on the specific USG Durock™ Brand floor patch product, job site temperature and humidity conditions as well as application thickness. High humidity and/or low substrate temperatures will extend dry times.
- Non-breathable 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.
- Perform field bond test to determine adhesive/flooring performance over the USG Durock™ embossing system. 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.

## 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 use over water-soluble adhesive residues.
6. The subfloor, room temperature and USG Durock™ Brand Matrix Bond Enhancer liquid and the USG Durock™ Brand floor patch product—either mixed or in powdered form—must be between 50 °F and 95 °F (10-35 °C) at the time of application and for 72 hours after installation of the embossing system.
7. Do not add water.
8. Drying time and open/working time may vary based on the specific USG Durock™ Brand floor patch, temperature, humidity, substrate porosity, thickness of application and job-site conditions.
9. Do not allow to freeze.

For additional information, refer to the *Notes/Limitations* section of the specific USG Durock™ floor patch submittal sheet at usg.com.

## PRODUCT DATA

**Approximate Working Time:** 15–45 minutes\*

**Thickness Ranges:** USG Durock™ Advanced Skim Coat Floor Patch – Featheredge to 1/4 in. (6.3 mm), USG Durock™ NE, Tuf-Skim and X Floor Patch – Featheredge to 1/2 in. (12.6 mm), any depth for small well-defined areas

**Calculated VOC content (SCAQMD 1168):** 9.1 g/L

**Packaging:** 1 gallon (US) (3.7 L) jug

**Note \*** Drying time and open/working time will vary based on the specific USG Durock™ floor patch product, temperature, humidity, substrate porosity, thickness of application and job-site conditions.

**STORAGE**

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Do not store USG Durock™ Matrix Bond Enhancer 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 USG Durock™ Matrix Bond Enhancer above 95 °F (35 °C). USG Durock™ Matrix Bond Enhancer has a shelf life of 12 months from the manufacture date.

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**CLEANUP**

Clean tools with water before the USG Durock™ embossing system dries.

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**SUBMITTAL APPROVALS**

<b>Job Name</b>	
<b>Contractor</b>	<b>Date</b>

**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: 1-800-507-8899 or see the SDS at usg.com

**KEEP OUT OF REACH OF CHILDREN.**

**TRADEMARKS**

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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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