



USG DUROCK™ BRAND 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 F2170); up to 10 lbs. MVER (ASTM F1869); and pH levels up to 12 (ASTM F710)
 - Releasable or semi-permanent
 - Can be used wet, semi-wet or clear
 - High shear strength 45+ lbs., average peel 5+ lbs.
 - CRI Green Label Plus Certified – low VOCs
 - Variable working time – 20 minutes to hours
 - Superior coverage rates
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DESCRIPTION

USG Durock™ Brand Genius™ Flooring Adhesive is a premium, high strength and solvent free pressure sensitive adhesive that offers an industry leading coverage rate. It may be installed on all grades of concrete on, above or below grade in the absence of excessive moisture, in addition to Wood Association approved wood underlayment and subflooring. This formulation was engineered to bond carpet tiles, non-patterned broadloom, sheet vinyl, resilient (LVT, LVP, VCT) and sport flooring. USG Durock™ Genius Flooring Adhesive tolerates up to 99% RH and up to 12 pH, making it the ideal solution for bonding floor coverings in high substrate moisture applications.

USG Durock™ Genius Flooring Adhesive is easy to use and offers superior troweling properties with working times ranging from 20 minutes to several hours, depending on the needs of the flooring and/or project. This adhesive is safe to use in confined areas. Flooring can be set into USG Durock™ Genius Flooring Adhesive while wet, semi-wet or clear. Once applied, the product is releasable or semi-permanent while providing high shear strengths of 45+ lbs., and an average peel strength of 5+ lbs. When used over USG Durock™ Brand or USG Levelrock® Brand floor preparation products, priming is not required*, reducing the installation time. If desired, an application of USG Durock™ Primer-Sealer may be applied for increased bond. For non-USG gypsum underlayments, a primer is required.

For high moisture applications, special care should be taken to specify floor coverings that can tolerate elevated moisture and pH levels.

Note *USG Levelrock 2500 Series and 3500 Series Floor Underlayments must be primed prior to USG Durock™ Genius Flooring Adhesive application.

VOC EMISSIONS

USG Durock™ Genius™ Flooring Adhesive achieved Green Label Plus® Certification and qualifies as a “Low Emitting” material per California Department of Public Health CDPH/EHLB/Standard Method (CA Section 01350) for versions 1.1 and 1.2 private office scenario, and meets USGBC’s LEED® v4 emission requirements.

EXTENDED WARRANTY

An extended warranty may apply when using USG Durock™ Genius Flooring Adhesive in a system application. Please contact USG for further details.

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. Check concrete for proper moisture and vapor transmission.

All substrates to receive resilient flooring must be dry, clean, smooth and structurally sound. They must be free of voids and protrusions, dust, solvent, paint, wax, oil, grease, residual adhesive, adhesive removers, curing, sealing, hardening/parting compounds, alkaline salts, carbonation/laitance, mold, mildew, and all other surface contaminants that might prevent the adhesive from bonding.

SUBFLOOR PREPARATION CONT.

Remove any accumulated dust and loose debris from the surface using a HEPA filtration industrial vacuum or other suitable means.

Concrete subfloors receiving adhesive must be cured properly (generally for a minimum of 28 days) and dry (subfloors may be damp but should not have standing water on the surface), prior to the application of USG Durock™ Brand Genius™ Flooring Adhesive. If a concrete substrate has been profiled, the substrate receiving the adhesive must have a maximum concrete surface profile of CSP of 1. The maximum acceptable floor variation is 3/16 in. (5 mm) in 10 feet. USG patching or leveling compounds must be used to address any areas that require patching or smoothing of any rough surfaces.

Coatings and sealers that would prevent USG Durock™ Brand Genius™ Flooring Adhesive from bonding to the substrate should be either mechanically removed or treated with USG Durock™ LSP™ Liquid Surface Profiler to prepare the surface (see *USG Durock™ Brand LSP™ Liquid Surface Profiler Submittal* (CB5246) for application requirements). Once clean concrete is exposed, properly prepare the area using a USG patching or leveling compound prior to the application of USG Durock™ Genius Flooring Adhesive.

NOTE – Floating a floor patch over old adhesive is not recommended due to the potential breakdown and leaching of that adhesive over time. Old adhesives have been known to cause failure of floor-covering adhesives and may negatively affect the performance of the floor covering. Some adhesives may contain asbestos fibers that are not readily identifiable. Do not mechanically remove organic adhesives, asphalt, coal-tar-based adhesives or other materials containing asbestos.

TOOLS

- Safety glasses
- Protective gloves
- Long sleeved shirts and trousers
- HEPA filtration industrial vacuum
- Stiff bristle (non-metal) broom
- Chalk line
- Notched trowel (product specific, see *Coverage Rates* table, pg. 3)
- Weighted roller (75-100 lbs.)

MIXING

USG Durock™ Genius™ Flooring Adhesive is ready-to-use from the pail.

APPLICATION

Read and follow the product specific installation guidelines for layout, design and any special instructions for installation.

Prior to application, it is recommended to perform a 72-hour bond test for each floor covering to be installed in order to determine compatibility of the adhesive to the substrate. USG Durock™ Brand Primer-Sealer can be applied to promote adhesion when necessary.

USG Durock™ Genius Flooring Adhesive, flooring and the area to receive flooring must be maintained at a temperature ranging from 60-95 °F (16-35 °C) and the ambient relative humidity controlled between 30-65% for 24 hours before, during and after installation. Open time may be extended when installing over nonporous substrates and in environments with low temperatures, low air circulation and/or high humidity.

Note Coverage rates, open time and working times may vary based on temperature, humidity, substrate porosity, trowel size and air flow. The higher the temperature and/or humidity, the shorter the working time and faster the cure rate.

FLOOR-COVERING INSTALLATION
RESILIENT FLOORING**POROUS SUBSTRATES**

To properly apply USG Durock™ Genius Flooring Adhesive, snap white chalk lines along areas where adhesive will be spread to ensure an even and straight line of adhesive. Spread adhesive with a 1/16 in. wide (1.6 mm) x 1/32 in. depth (0.8 mm) x 1/32 in. apart (0.8 mm) trowel to cover the chalk line on one side and meet up to it on the other. If glue is spread over the chalk line it will need to be removed. DO NOT overlap adhesive – troweling new adhesive over an area already spread may result in telegraphing. Be very careful not to leave any adhesive ridges or puddles.

Resilient flooring may be placed into adhesive after 10–20 minutes open time. Install resilient flooring into adhesive when the spacing in between the adhesive transitions from opaque to clear. Roll with a 100 lb. roller immediately after flooring is placed, ensuring complete contact with the adhesive. DO NOT exceed the working time of the adhesive.

**FLOOR-COVERING INSTALLATION
CONT.
RESILIENT FLOORING**

COVERAGE RATES

NOTES/LIMITATIONS

PRODUCT DATA

NON-POROUS SUBSTRATES

Once the adhesive is troweled, back roll the adhesive to prevent trowel ridges from telegraphing. Install resilient flooring into adhesive when it becomes 80% clear (dry to touch, is tacky with minimal transfer to fingers). This will normally require 30 to 45 minutes of drying time at suggested installation temperature and humidity. Roll with a 100 lb. roller immediately after flooring is placed, ensuring material has complete contact with adhesive. DO NOT exceed working time of the adhesive (refer to adhesive label).

Note With high RH concrete substrates (85% or above), the adhesive must be allowed to dry to clear prior to installing and rolling the floor covering.

Approximate coverage rates shown below are for estimating purposes only. Actual jobsite coverages may vary based on substrate conditions, type of trowel used and setting practices. (Trowel dimensions are depth/width/space.)

Flooring Type	Application Tool	Coverage Rate
Carpet Tile	1/16" x 1/32" x 5/64" U-Notch (1.6 mm x 0.8 mm x 2 mm)	28-33 yds ² /gal (250-300 ft ² /gal)
	3/8" (10 mm) foam or medium nap roller	35-40 yds ² /gal (300-350 ft ² /gal)
Hard Surface	1/16" x 1/32" x 1/32" U-Notch (LVT, LVP) trowel (1.6 mm x 0.8 mm x 0.8 mm)	19-22 yds ² /gal (175-200 ft ² /gal)
Sheet Vinyl	1/16" x 1/32" x 1/32" U-Notch trowel (1.6 mm x 0.8 mm x 0.8 mm)	19-22 yds ² /gal (175-200 ft ² /gal)
Non-Pattern Broadloom	3/32" x 3/32" x 3/32" U-Notch trowel (3 mm x 3 mm x 3 mm)	8-9 yds ² /gal (70-80 ft ² /gal)
Cushion/Carpet Tiles	3/8" (10 mm) foam or medium nap roller	35-40 yds ² /gal (300-350 ft ² /gal)

Refer to the floor covering manufacturer's installation instructions for the proper application of floor coverings when using USG Durock™ Genius Flooring Adhesive.

1. For interior use only.
2. Do not use in areas subject to continuous immersion or possible repeated wetting.
3. Do not store below 40 °F (4.5 °C) or above 95 °F (35 °C).
4. Material that has been stored below 50 °F (10 °C) should be warmed to ambient temperatures for a minimum of 24 hours prior to use.
5. Do not freeze.

pH: 7-8.5

Approximate Coverage: See *Coverage Rates*, pg. 3

Color: White

Flash Point: 212 °F (100 °C)

Packaging: 4 gal. (15.14 L) pail

Work time: 20 minutes to hours

Shear strength: 45+ lbs.

Average peel strength: 5+ lbs.

Shrinkage: No measurable shrinkage after 14 days

Application temperature: 60-95 °F (16-35 °C)

Cure time: Light traffic 4-8 hours; heavy traffic 24 hours minimum; rolling loads 72 hours

Shelf life: 24 months

CLEANUP

Use warm soapy water while adhesive is still wet. Dried adhesive requires the use of a safety solvent.

STORAGE

Do not store USG Durock™ Genius Flooring Adhesive in freezing conditions. If material becomes frozen, allow to thaw to room temperature. Follow all local, state and federal regulations when disposing empty containers and/or product. During summer months, do not store product above 95 °F (35 °C). Unused product should be stored in a closed container. USG Durock™ Genius Flooring Adhesive has a shelf life of 24 months from the manufacture date in original unopened container.

SUBMITTAL APPROVALS

Job Name	
Contractor	Date

PRODUCT INFORMATION

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

WARNING

Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. Avoid contact with eyes or skin, ingestion, and inhalation of mist or vapor. Use only in a well-ventilated area; wear a NIOSH-approved respirator if necessary. Wear protective gloves/protective clothing/face protection/eye protection. Avoid release to the environment. If on skin: Wash with plenty of soap and water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing. If skin irritation or rash occurs, or if eye irritation persists: Get medical attention. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Dispose of contents/containers to an approved waste disposal plant. Keep containers closed when not in use. For more information call Product Safety: 1-800-507-8899 or see the SDS at usg.com.
Note: 44% of the mixture consists of component(s) of unknown acute toxicity. 44% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

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 applicable SDSs and literature before specification and installation.

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CB5247-USG-ENG/rev. 4-20
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