

Ultimate Flooring Adhesive Data Sheet

Product Description

XCEL UFA is a 1-component, moisture-curing, permanently elastic, wood flooring adhesive, polymer-based elastomeric adhesive. XCEL UFA is engineered for solid wood plank and strip, wood parquet, engineered wood plank trim and moulding and is suitable for all residential and commercial full glue-down applications. Virtually odorless, UFA offers a fast and efficient application using trowel to create a uniform thickness adhesive. It is engineered to provide a tenacious, durable and moisture-resistant, and protective barrier which contains zero water, and isocyanates.

Fields of Application

Wood flooring adhesive providing alternatives to face-nailing and allows for natural movement of flooring.

- ✓ Bonds to most flooring substrates
- ✓ Suitable for wood, moulding and trim
- ✓ Excellent for repairs/replacements
- ✓ Alternative to face-nailing
- ✓ Excellent green grab
- ✓ Compatible with radiant heat systems

Main Benefits

- ✓ Fast & Efficient Application
- ✓ Easy to clean
- ✓ Ultra-Low VOC's
- ✓ Highly durable, & moisture stable.
- ✓ Virtually Odorless
- ✓ Cures permanently flexible, with zero shrinkage



Directions for Use:

Always consult and follow flooring manufacturer instructions, recommendations and limitations before installation. The substrates must be clean, dry, and free of old residues, polish, liquid sealants, wax, dust, grease and other contaminants which may affect the adhesion. Painted surfaces must be well cured and free of loose paint. The product is suitable for a large range of flooring substrates, however, a preliminary adhesion test is recommended on every surface. After substrate preparation, apply with a suitable trowel. Do not apply more adhesive than can be covered within 10 - 20 minutes, depending on temperature and humidity. Uncured product may be easily removed with soapy water. Cured sealant may be removed using mineral spirits or mechanically. Do not allow light-foot traffic until after 12 to 24 hours at +23°C for a thickness between 2 to 3 mm.

XCEL UFA exhibits excellent adhesion to most flooring substrates including but not limited to wood, concrete, metal, cementitious and common flooring materials. Cures fast, even at low temperatures. UFA is engineered with high-viscosity to allow controlled flow and to be used in commercial and residential settings for all manufacturers wood plank and strip, wood parquet, and engineered wood plank and strip, APA-grade underlayment plywood (untreated), radiant-heated subfloors where temperatures don't exceed 30°C, cementitious terrazzo, and existing resilient flooring, metal and common flooring materials.

Technical Information:

Raw material basis: Polymer

Consistency: Non-slump, non-sagging paste

Weight per gallon: approx. 13.3 lbs/gal

VOC: <45 g/l

Viscosity: 80,000 - 120,000 centipoises

Working time: 10 – 20 minutes (at 23°C; 50% R.H.)

Curing rate: 2-3 mm/24 hr

Minimum applied thickness: skim coat, feather edge

Maximum applied thickness: 12.7 mm (0.5")

Coverage: 35 to 80 square feet per gallon



Properties of cured product:

Max. tensile: >250 psi / 17.5 kg / cm²

Shear strength (shear rate = 1"/min): >180 psi

Elongation: >150 %

Peel Strength to Wood/Concrete: >18 pli

Shrinkage: Zero

Low Temperature flexibility: Pass

Full strength cure time: Up to 7 days

These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Color and Packaging Information

This product is packaging in 13.25 l / 3.5 gal pails

Colors: Beige/Natural Color

Surface Preparation

Testing for compatibility and adhesion on small area of the surface must be performed by the user. The user shall determine suitability of the product for its intended use. Testing must also be performed to determine the actual coverage rates necessary to achieve desired thickness.

All surfaces must be clean, dry, and free from damage, loose contaminants, dirt, dust, oil, grease, mist, frost, and mildew. Sweeping the surface to remove contaminants before applying the adhesive is recommended. Floor must be leveled; maximum acceptable floor variation is 1/8" in 10 feet. Use Portland cement based material if surface area is requiring patching or leveling.

Application Equipment and Coverage

UFA can be applied using a suitable trowel. Immediately place flooring onto "wet" adhesive. Do not spread more adhesive than can be covered within 10 - 20 minutes, depending upon temperature and humidity. UFA is estimated to cover 35 to 80 square feet per gallon depending on the notched trowel size that is used. This coverage rate is approximate and used only as guideline. Exact coverage may be different depending on the surface roughness, adhesive thickness, and other factors.

Product Limitations

Xcel UFA does not safeguard against wood flooring moisture damage from top, sides, or ends (like water leaks, puddles etc.). It also doesn't address other moisture or installation issues such as improper flooring acclimation or the impact of job site temperature and humidity. Do not allow light-foot traffic until usually 12 to 24 hrs. Follow industry standards and wood floor manufacturer's recommendations for subfloor moisture content, design, layout and application of wood flooring materials.

Clean Up

Remove wet adhesive residue with a clean, white cloth dampened with soapy water. Use mineral spirits for dried adhesive residue, carefully following warnings on the container. When using mineral spirits, test a small area before proceeding to make sure it does not damage the surface being cleaned.

Storage and Safety:

The shelf life is 18 months from manufacturing date, provided that it is stored in original packaging, sealed and in a dry place in temperatures from 41°F (+5°C) to 86°F (+30°C). Once the container is open and exposed to the atmosphere, a skin will start to form at the surface over time. If this occurs, remove the skin from the surface before using the material.

Avoid skin and eye contact. For further safety information see the corresponding Safety Data Sheet.

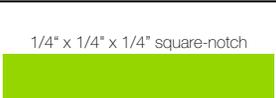
Trowel Size Recommendation

Moisture Vapor Control Installation Method

Flooring Type	Recommended Trowel	Coverage
Solid, engineered, or bamboo wood flooring up to 5/8" thick.	1/4" x 1/4" V-notch 	35-40 sq ft
	1/4" x 1/4" x 1/4" square-notch 	35-40 sq ft
Solid, engineered, or bamboo wood flooring >5/8" thick, or plywood.	1/2" x 15/32" V-notch 	25-30 sq ft
	1/4" x 3/8" x 1/4" square-notch 	25-30 sq ft

Use a recommended trowel size for optimal adhesive coverage. Periodically lift a board to check for 100% coverage on the concrete substrate and full transfer to the back of the flooring product. If the subfloor is uneven, consider using a leveling/patching material or a larger V-notched trowel for proper adhesive coverage.

Traditional Installation Method

Flooring Type	Recommended Trowel	Coverage
Engineered hardwood flooring ≤1/2" thick.	3/16 x 5/32" V-notch 	55-65 sq ft
≤ 1/2" Parquet, or cork underlayment.	1/8" x 1/8" x 1/8" square-notch 	85-95 sq ft
Engineered hardwood flooring >1/2" thick, solid wood or bamboo flooring ≤1/2" thick, and parquet ≤3/4" thick.	1/4" x 1/4" x 1/8" square-notch 	45-50 sq ft
Solid wood or bamboo flooring >1/2" thick, or plywood.	1/4" x 1/4" x 1/4" square-notch 	35-40 sq ft

Use a recommended trowel size for optimal adhesive coverage. Periodically assess adhesive coverage during installation: ensure >80% coverage and transfer for engineered wood flooring, and >95% for solid wood or bamboo products.