

Ultimate Flooring Adhesive Data Sheet

Product Description

XCEL UFA is a 1-component, moisture-curing, permanently elastic, wood flooring adhesive, based on MS Polymer. XCEL UFA is engineered for flooring, trim and moulding and is suitable for all glue-assist or full glue-down applications. Virtually odorless, UFA offers a fast and efficient application using trowel to create a uniform thickness adhesive and/or applying it in beads using standard sausage and sausage dispensing gun. It is moisture resistant; contains an anti-microbial agent and zero water, solvents, phthalates or isocyanates.

Fields of Application

Multipurpose flooring adhesive providing alternatives to face-nailing and allowing for natural movement of wood 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
- ✓ Virtually Odorless
- ✓ Highly durable, moisture stable, & anti-microbial
- ✓ 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 sausage dispensing gun or 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 heavy-foot traffic until fully cured: usually 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: MS Polymer

Consistency: Non-slump, non-sagging paste

Specific gravity: approx. 1.58 g/ml

VOC: <25 g/l

Viscosity: 150,000 to 250,000 centipoises

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

Curing rate: 2-3 mm/24 hr

Consumption: approx. 18 linear meters (60 ft) per 600ml sausage (nozzle diameter: 8 mm/0.25")

Minimum applied thickness: skim coat, feather edge

Maximum applied thickness: 12.7 mm (0.5")

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

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 600 ml / 20 oz sausages and 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 in beads using a sausage dispensing gun and/or by troweling the adhesive with 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

UFA will not prevent moisture-related damage to wood flooring installations. Do not allow light-foot traffic until fully cured: 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.