



Description of Product:

- **2 in 1** Hybrid is a urethane moisture barrier and wood flooring adhesive.
- Designed to install material such as: solid/engineered flooring, parquet flooring and bamboo flooring (not strand woven) over concrete.
- Application of this product gives the moisture barrier and the wood flooring adhesive in one easy trowel on application.

Performance Features and Benefits:

- Significantly reduces installation time compared to most standard moisture barrier/adhesive systems.
- Vastly reduces installation costing.
- Low V.O.C. and low odor.
- Trowel ridge holding and non-slump.
- Offers easy application with good wet/green grab, which grabs up to hold the flooring.
- Final cured product yields a superior moisture barrier and wood flooring adhesive.
- Superior product elasticity elongates to cover small cracks and produces cushioned quieter floors with superior acoustic properties.

Installation:

Thoroughly read and understand this data sheet prior to use of the **2 in1**.

Surface Preparation:

Surfaces such as concrete, cement-based backer boards, terrazzo and thoroughly abraded ceramic tile must be dry and free of dirt, loose particles, oil, wax, grease or any other substance which may affect adhesion. Floor level must not vary beyond 1/8" per 10 feet. If some materials prove hard to remove during preparation, surface abrasion such as sand blasting or some similar method must be used.

Floor Moisture Content Guidelines:

If the floor appears damp or is susceptible to moisture, pre-test the floor for moisture using a Tramex Concrete Moisture Encounter, an in-situ relative humidity probe or the ASTM F 1869 calcium chloride moisture content test method. If the Tramex is initially used and reads 5.5 or less, or the relative humidity probe reads 85% humidity or less, proceed with the application. If the Tramex or RH probe reads higher, carry out the ASTM F 1869 calcium chloride test. If the moisture level tests higher than 15 lbs. per 1000 sq.ft. per 24 hours, do not use the **2 in1**, as moisture at this level indicates significant moisture problems, which must be addressed prior to flooring installation. If the moisture is at or below 15 lbs., proceed with the application.

Application and Method:

2 in 1 must be applied using the specified trowel. The trowel must be replaced every 800 square feet. The use of any other trowel to apply **2 in 1** will void all warranties and claims made by Grautech Corporation regarding this product. Trowel out the **2 in 1** like a standard urethane wood flooring adhesive, ensuring 100% coverage of the area where the wood flooring is to be installed.

Immediately following trowel application, wet lay the wood flooring into the uncured **2 in 1**, ensuring 100% contact of the flooring into the **2 in 1** is achieved, then tape the flooring, ensuring all defective flooring is discarded prior to installation.

Floor traffic should be light for the first 12 hours after installation, as excessive traffic can damage the moisture retardation effect of the **2 in 1**. Full traffic can resume after 12 hours.

Clean any spilled **2 in 1** with mineral spirits prior to curing. Follow the cautionary dialogue on the mineral spirits container, as mineral spirits is flammable.

For standard protection, wear safety glasses and disposable gloves.



Trowel Recommendations:

2 in 1 is wet laid, ensuring 100% coverage and replacing the trowel every 800 sq. ft. to install the following wood flooring with the following trowels:

3/16" x 1/4" V Notch



Coverage - 40 sq. ft. per gallon
Multi-Ply engineered plank up to 8" wide and up to 5/8" thick (not below grade).

1/4" x 1/4" V Notch



Coverage - 30 sq. ft. per gallon
Solid and bamboo flooring up to 8" wide and up to 5/8" thick (not below grade).

15/32" x 1/2" V Notch



Coverage - 20 sq. ft. per gallon
1). Multi-Ply engineered plank up to 8" wide and up to 5/8" thick (below grade).
2). Multi-Ply engineered plank, solid and bamboo flooring up to 8" wide and greater than 5/8" thick (not below grade).

Incorrect trowel use voids the product warranty. Wear safety glasses and gloves.

Packaging and Shelf Life:

Product is packaged in a 3.5 or 5-gallon metal pail, which keeps it stable for one year in the unopened pail (store under ambient conditions in a dry area). Cured material is not considered hazardous. Partially used containers can have their original lid replaced and sealed. Upon the next use, remove the lid, cut away and discard any skin formation and proceed with application.

Limitations:

Do not use over concrete treated with sealers or curatives.

Do not use over gypsum based patches or underlayments.

Product will not negate excessive sub floor moisture problems such as hydrostatic pressure. Hydrostatic pressure occurs when the sub floor restricts a body of water from flowing along its' normal path. This pressure is unpredictable and can cause failure of the sub floor and any associated coating or barrier system.

Do not use if the floor moisture is outside the floor moisture content guidelines.



Safety Data:

May contain calcium carbonate (CAS 1317-65-3), MDI / methylenediphenylenediisocyanate (CAS 101-68-8). Contains no California Proposition 65 listed chemicals.

Flash Point: >250F. Volatile Organic Content (V.O.C): <30g/l.

Further Safety Warnings:

KEEP OUT OF REACH OF CHILDREN

PRODUCT INTENDED FOR INDUSTRIAL USE

STORE IN A TIGHTLY SEALED CONTAINER

AVOID DIRECT SKIN CONTACT

NOT FOR INTERNAL CONSUMPTION

CONSULT MATERIAL SAFETY DATA SHEET PRIOR TO USING THIS PRODUCT

Grautech Corporation warrants **2 in 1** to be effective in installing and protecting wood flooring which is installed over floors which push up to **15 pounds** of moisture per 1000 square feet per 24 hours based on the ASTM F 1869 calcium chloride test method and to be in accordance with its' technical properties as outlined on its' data sheet for **10 years** following the date of installation, providing the Grautech Corporation **2 in 1** product has been stored in accordance with its' data sheet, used within the duration of its' shelf life and applied in full compliance with its' data sheet.

The user of this product determines its' suitability for any intended use and assumes all associated risks thereof.

This warranty is to the original purchaser. This warranty is not assignable or transferable.

In the event of a warranty claim, Grautech Corporation shall pay for reasonable material for a one-time replacement of the area, which is defective as a result of the **2 in 1** and not other factors as deemed by Grautech Corporation. Some examples of other factors which are not covered by this warranty would be: poor preparation of the sub-floor, poor product application practices, poor maintenance and replacement practices of the application trowel, hydrostatic pressure of water through the sub-floor, flooding, movement of water from other areas, overly high relative humidity and any type of damage which cannot be proven to be the result of excessive moisture migration through the Grautech Corporation **2 in 1** due to standard atmospheric humidity and pressure changes.

Buyers' sole remedy shall be limited to the one time replacement price of the aforementioned material exclusive of labor or cost of labor.

No warranty other than the aforementioned is expressed or implied regarding this product, including any warranty for the sale of this product for a particular application. Grautech Corporation assumes no responsibility for personal injury or property damage to sellers, users or third parties caused by this material. Such sellers or users assume all risks associated with this material.