



VERMEISTER®

SOLUTIONS FOR WOOD FLOORS



HI TECH 1K TECHNICAL GUIDE

V 2.0

(866) 413-5667

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Usage Guide



SHAKE WELL BEFORE USING
Shake Component A vigorously for 60 seconds.



STRAIN THE FINISH
Strain the product before using to remove any impurities with the provided stainer and/or painters cloth.



RETARDER
To slow down the dry time of Hi Tech 1k use VerMeister's retarder, Soluzione. Add 5-10% (3-6 ounces per gallon) of Soluzione to Hi Tech 1k and shake vigorously for 60-180 seconds.
IMPORTANT: Do not exceed 10% dilution of Hi Tech 1k with Soluzione.

Disclaimer

The details contained in this chart are provided to the best of our knowledge but do not constitute supply specifications owing to the many different types of use and conditions of application.

Warranty

VerMeister America Inc. does not in any way warrant the merchantability or fitness of this product in any purpose, or provide any other warranty, expressed or implied. Any liability whatsoever of VerMeister America Inc. is limited to the replacement of product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential.

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Quick Facts



Coverage	V.O.C.	
450 - 550 ft ²	210 g./l.	
Disc/Screen Before Hi Tech 1k		
220 (20 Mesh) Screen or Maroon Pad with 3 Fine Grit 240 Strips		
Application Methods	Maximum Retarder Per Gallon	
Roller, T-Bar, Pad, Brush	3-6 ounces of Soluzione	
Dry for Screening	Sealer Compatibility	
12 Hours	Aqua Tenax, Flame	
Sheen Levels		
X-Matt/10 Gloss/Matte, 30 Gloss/Satin, 60 Gloss/Semi-Gloss		
Storage	Shelf Life	Clean up
Cool Dry Place	12 Months*	Water

Description

Hi Tech 1K is a single-component waterborne finish with a durability comparable to traditional two-component finishes. Hi Tech 1k is the first to feature VerMeister's S-X-L (Self X-linking System) which allows for a perfectly cross linked finish without catalyst. Hi Tech 1k also uses NSS (Nano Scale System) to achieve an unbeatable scratch resistance. Thanks to its high solid content this product has a high build property; the film reaches a degree of chemical and mechanical resistance and hardness typical of solvent based products. Hi Tech 1K also distinguishes itself from traditional waterborne finishes by its wonderful transparency, ease of use, and above all for the rich color that it confers on the wood. Hi Tech 1k is recommended for all types of wood floor.

Tips

- It is highly recommended to use Aqua Tenax or Flame as a sealer before applying Hi Tech 1k.
- If your application tool feels sticky while applying Hi Tech 1k, add 5% of Soluzione and shake vigorously for 60-180 seconds. If Soluzione is not available, water can be used as a substitute.
- If you are working in dry or very warm conditions, use Soluzione to slow the drying of Hi Tech 1k. Add 3-6 ounces of Soluzione (per gallon) and shake for 60-180 seconds.
- Hi Tech 1k can be applied without screening between 3-5 hours after the previous coat.
- Unused portions of an open gallon should be used within 2-4 weeks and strained with painters cloth to remove the excess skin and/or clumps.
- Hi Tech 1k can be applied on top of or before both the Idro 2k and Hi Tech 2k finish lines.
- Hi Tech 1k is **NOT** recommended for recoats, instead use Idro 2k or Hi Tech 2k for better adhesion.
- **It takes 7 days for Hi Tech 1k to fully cure and reach optimal scuff and scratch resistance, be careful during this time.**
- Use Aqua Tenax over stains however it is extremely important that the stain is properly cured.
- **Turn Air Conditioning off 1 hour prior to applying Flame.**

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Technical Details

Floor Preparation

Sand and prepare floor using NWFA or NOFMA accepted methods. Apply a first coat of primer (Aqua Tenax or Flame) according to the instructions of the relevant technical data sheets. After the sealer is dry, abrade with a maroon pad and 3 fine grit 220 strips, vacuum and tack floor thoroughly. If Hi Tech 1k is used on exotic and/or rare woods, it is advisable to use Aqua Tenax as a seal coat because the direct application of Hi Tech 1k or other waterborne sealers doesn't provide adequate insulation.

Application

Shake well before using. Apply the finish with a t-bar, trim pad, brush or roller using a NWFA or NOFMA approved application method. For easier application, Flame can be diluted 5% (3 oz. per gallon) with Soluzione or water after the finish has been catalyzed (two components mixed). A second coat of Hi Tech 1k is recommended (for heavy duty or commercial floors), allow the finish to dry 12 hours and abrade with a fine 240 grit screen or maroon pad with 3 fine grit 240 strips until the floor is uniformly dull and smooth, vacuum, tack and apply. Hi Tech 1k can also be "hot coated" directly on top of itself without screening after 3 hours and before 5 (under ideal conditions). For best results of a second Hi Tech 1k coat, screening is recommended after the finish is dry (approximately 12 hours). Hi Tech 1k may be used as a seal coat (directly on bare wood) for a slightly lighter appearance. If working on exotic, rare woods and/or stains, use Aqua Tenax as seal coat.

If recoating an existing floor use either the Idro 2k or Hi Tech 2k finish line.

Curing

Allow the final coat to dry for at least 48 hours before use. The curing process takes approximately 7 days (75% cured after 1 day, 90% after 3 days). Do not place area rugs on the floor until the finish has cured fully. The floor may be walked on after 24 hours but is susceptible to scuffing or marring prior to completion of the curing process. Do not use cleaner during this 7-day cure time.

It takes 7 days for Hi Tech 1k to fully cure and reach optimal scuff and scratch resistance, be careful during this time.

Maintenance

For floor maintenance, use Detergent Neutro and Idronet, according to the quantities stated on the relevant technical data sheets.

Caution

- Low temperatures, high humidity and poor air circulation can increase dry times.
- Allow mixture to completely harden before disposing of in accordance with local, state, and federal regulation.
- Keep product from freezing and extreme heat (Store at 55°-70°F)
- For professional use only. Always wear protective gear (Respirator, Dust Masks, Gloves) when sanding wood floors and/or using this product. Refer to the relevant Material Safety Data Sheet (MSDS).

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