HELIOVAR
SCIENTIFICALLY ENGINEERED FOR PERFORMANCE

691Tx.037.x
Conversion Varnish Series LF

Description

HELIOVAR Conversion Varnish LF is formulated for interior woodwork where a tough, mar resistant finish is required. It can be used as a self-seal product or over a conversion type sealer. It meets the finish test requirements of the Kitchen Cabinet Manufacturers Association (KCMA) when used as a self-seal product or over a Conversion Varnish Sealer.
It is formulated for as a Low Formaldehyde emitting finish and has improved UV resistance.

To prevent costly refinishing, all application procedures should be tested under ambient conditions to ensure adhesion, compatibility, and product appearance. This product is manufactured ready to spray, and is HAPS free.

Features

- Low Formaldehyde, HAPS Free
- Easy-to-Apply, Fast Dry for Easier Handling & Quicker Re-coat.
- Excellent Build, Mar, Chemical and Moisture Resistance

Companion Products

- HELIO Acid Catalyst
- HELIOLAC Vinyl Precat Sealer

Product Information

Physical Properties	**Clear**
Type:	Synthetic Alkyd/Urea
Viscosity:	17-19 Sec. Signature Zahn #2
Solids (wt. %):	37.4±0.5 (Formulated)
Solids (vol. %):	29.3±0.5[1]
Reducer:(if needed)	992RT.004 Butyl Acetate (10% Max)
Air Dry:	20 min. touch; 45 min. recoat
Catalyst:	999CH.019 @10%
Density:	7.96±0.1 lbs./gal.
VOC:	3.52 lbs./gal. 422 g/l
VOC(minus exempt):	4.53 lbs./gal. 545 g/l
VHAP (wt.):	<0.1 %[1]
VHAP Ratio:	<0.01 (# VHAP / # NVM)[1]
Pot Life:	8 hours @ 77F
HMIS:	3, 3, 0, I

Application:	Spray
Shelf Life:	One year from the manufacturing date.
Storage:	Store in a cool, dry place. Close all containers after use. Do not store near heat or sparks. Spills should be cleaned up with non-sparking tools. See the product MSDS for complete safety information
D.O.T. Class:	Paint, Hazard Class:3 I.D. Number: UN1263 Packaging Group: II
Special Precautions:	These products are recommended for professional application and are designed for interior use only.

NOTE: All information provided is typical (as formulated) and will not represent exact values for every product.

The information contained herein is based on tests and reports considered reliable but we cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. Users assume all responsibility for loss or damage arising from the use of our products whether used alone or in combination with other products.

[1]Data found on the standard format CPDS, and calculated using NESHAP required Method 24 testing. VOCs are calculated as applied – subtracting the exempt solvents by weight only. Receipt of this document does not replace or supercede CPDS documentation.
[2]AIMs calculation of VOC – exempt solvents subtracted by weight and volume.
[3]Passes KCMA under laboratory conditions when applied as specified. Individual systems and applications vary and may require specific testing to verify results under different conditions.

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Finishing Recommendations

For best results, maple and birch should be sanded to 180 before continuing with finishing procedures. Other substrates should be sanded appropriately before finishing. Use silicon carbide paper only. Wood should be clean and dust-free with a moisture content of 6 – 8% prior to finishing. Proper sanding and preparation of the substrate is critical to achieving consistent results.

Sealer:
Always add catalyst (if required, depending on which sealer is being used) under agitation.. Apply the seal coat in one smooth even application of 3 – 4 mils wet film thickness. Machine sand (for best results) or hand sand with 240 – 230 grit, stearated silicon carbide sandpaper.

Conversion Varnish:
Choose the appropriate sheen and agitate well. Catalyze at 10% or thirteen (13) ounces per gallon with the 999CH.019 Acid Catalyst EP. Verify the surface is clean and dust-free, then apply an even, wet coat of four (4) mils.

Subsequent Coats:
If additional coats are needed, wait 45 minutes between applications then scuff-sand with 280 – 320 grit stearated silicon carbide sandpaper and re-coat.

Additional Finishing Notes:
Total dry film thickness should not exceed four (4) mils. All products should be stirred well before use and, for best results, continuously agitated while in use. Do not mix with other finishing systems. Nanochem will not be held liable for finish failure resulting from mixing products or systems.

Cleanup:
Use lacquer thinner to clean equipment. Dispose of dirty solvent and cleaning rags in a safe and appropriate manner. Solvent or lacquer soaked rags should be stored in water-filled, closed containers prior to disposal.

Warning:
Always pre-test the system on your substrate and line conditions to verify suitability and avoid costly refinishing. Care should be taken to keep ambient temperatures above 65° F. for substrate and coating. Abnormal conditions of temperature and humidity may adversely affect product performance.

Cleaning Finished Products:
For general care and maintenance of all Helio finishes, the following procedure is recommended: Clean with warm water using a clean cotton towel or rag. To obtain the longest product life possible, use of soaps, cleaners, solvents, waxes, ammonia, and other household chemicals should be avoided. Refrain from using paper products to clean wood finishes.

DISTRIBUTED BY:
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MSDS & CPDS Sheets Available Upon Request

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