



POLYCOR[®]

970C940 and 970C949 Wax Solutions

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Description

POLYCOR[®] 970C940 is a 2% wax solution in monomer. POLYCOR[®] 970C949 is an 8% wax solution in monomer. These solutions can be used to facilitate surface cure of polyester gel coat or laminating resin. The appropriate type and percent of catalyst must still be used, as wax solution does not replace the catalyst. Addition of the wax solution will allow the top surface of the polyester to cure tack-free.

Features and Benefits

- **Ease of Patching** – Sanding of the patch does not gum the sandpaper.
- **Water Spotting** – Air side cured surfaces of polyesters normally will blush and turn white when exposed to water. The addition of wax solution completes the cure, helping to reduce water spotting.
- **Cleanability** – The surface of the cured polyester will stay cleaner and be easier to clean.
- **Enamel** – Wax solution can be added to a gel coat to transform it into enamel; that is, the cosmetic surface will be tack-free. However, the surface will not exhibit a high gloss. Note: Wax solution may not be effective in gel coats that contain silicone additives for the prevention of fisheyes. See application section.
- **Elimination of Tackiness**

Typical Liquid Properties (77°F)

The liquid properties of POLYCOR[®] 970C940 and 970C949 are shown below. These values may or may not be manufacturing control criteria; they are listed as a reference guide only. Particular batches will not conform exactly to the numbers listed because storage conditions, temperature changes, age, testing equipment (type and procedure) can each have a significant effect on the results. Products outside of these readings can perform acceptably. Final suitability of this product is in the end use performance.

Test	POLYCOR [®] 970C940 and 970C949
Appearance	Liquid
Color	Clear/very light yellow
Viscosity ⁽¹⁾	10 cps
Weight per Gallon	7.4 lbs

⁽¹⁾ Brookfield LVF, spindle #1 @ 60 rpm



Application

	POLYCOR® 970C940	POLYCOR® 970C949	Comments
A. Patching-spray patches <i>When using PATCHAID® no additional wax solution is required or recommended</i>	5-10%	3-5%	Normally, patches are ready to sand in approximately 2 hours (2.0% catalyst and 77°F) when the patch is: <ul style="list-style-type: none"> • Dull in gloss • Tack free • A fingernail will not dent or leave an impression
Dab and putty patches	3%	3-5%	
B. Gel Coat to Enamel	5%	3-5%	A minimum of 12 mils wet must be sprayed and temperature should be at least 70°F for proper cure.
Conductive Gel Coat to Enamel	N/A	2.5%	
C. Laminating Resin	3%	1%	This modified product surface may encounter secondary bonding difficulties unless it is sanded.

Caution

If the wax solution is allowed to cool to less than 70°F, it could become cloudy and not be a uniformly dispersed solution. If this occurs, increase the temperature of the wax solution until restored to a clear appearance before using. Mildly agitate the wax solution before using.

The vehicle for the wax solution is styrene, and all safety precautions should be followed when using styrene. This material should be fully tested by the user to determine that it will meet all of their application and performance requirements. Do not use this material at temperatures below 70°F.

If wax solution becomes thick as syrup or contains solid particles, it should not be used.

Wax solution should not be used where the material surface is to receive further coatings or lamination. If used, thorough sanding and solvent washing should precede the next step.

Both product age and viscosity should be observed to avoid using polymerized material. Avoid excess usage because this may increase yellowing on exposure due to natural weathering.

Storage

POLYCOR® 970C940 and 970C949 have a shelf life of 180 days from date of manufacture when stored at 73°F, or below, in a closed factory sealed opaque container, and out of direct sunlight. Shelf life is cut in half for every 20°F over 73°F.

SDS / Data Sheets

SDS and data sheets can be obtained by contacting your Polynt representative or Polynt Customer Service at 800-322-8103.

POLYNT SAFETY INFORMATION

All sales of products manufactured by Polynt Composites USA Inc. and described herein, are made solely on condition that Polynt Composites USA customers comply with applicable health and safety laws, regulations and orders relating to the handling of our products in the workplace. Before using, read the following information, and both the product label and Safety Data Sheet pertaining to each product.

Most products contain styrene. Styrene can cause eye, skin and respiratory tract irritation. Avoid contact with eyes, skin and clothing. Impermeable gloves, safety eyewear and protective clothing should be worn during use to avoid skin and eye contact. Wash thoroughly after use.

Styrene is a solvent and may be harmful if inhaled. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Extended exposure to styrene at concentrations above the recommended exposure limits may cause central nervous system depression causing dizziness, headaches or nausea and, if overexposure is continued indefinitely, loss of consciousness, liver and kidney damage.

Do not ingest or breathe vapor, spray mists or dusts caused by applying, sanding, grinding and sawing products. Wear an appropriate NIOSH/MSHA approved and properly fitted respirator during application and use of these products until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapors, mists and dusts are below applicable exposure limits. Follow respirator manufacturer's directions for respirator use.

The 12th Report on Carcinogens issued by the National Toxicology Program lists styrene as a "reasonably anticipated" carcinogen, but the Report cautions that the NTP listing does not mean that styrene presents a risk to persons in their daily lives. The Styrene Information and Research Center does not agree with the classification as it did not include a review of all available data. SIRC states: "HHS included styrene in the 12th RoC despite the fact that European Union regulators have determined styrene does not represent a human cancer concern. E.U. scientists reviewed the full styrene database, weighing all of the available data in reaching their conclusion."

The International Agency for Research on Cancer (IARC) reclassified styrene as Group 2B, "possibly carcinogenic to humans." This revised classification was not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and published the following statement: Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene.

Styrene is classified by OSHA and the Department of Transportation as a flammable liquid. Flammable products should be kept away from heat, sparks, and flame. Lighting and other electrical systems in the workplace should be vapor-proof and protected from breakage.

Vapors from styrene may cause flash fire. Styrene vapors are heavier than air and may concentrate in the lower levels of molds and the work area. General clean air dilution or local exhaust ventilation should be provided in volume and pattern to keep vapors well below the lower explosion limit and all air contaminants (vapor, mists and dusts) below the current permissible exposure limits in the mixing, application, curing and repair areas.

Some products may contain additional hazardous ingredients. To determine the hazardous ingredients present, their applicable exposure limits and other safety information, read the Safety Data Sheet for each product (identified by product number) before using. If unavailable, these can be obtained, free of charge, from your Polynt Composites representative or from: Polynt Composites USA Inc., 99 East Cottage Avenue, Carpentersville, IL 60110, 800-322-8103.

FIRST AID: In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention.

Those products have at least two components that must be mixed before use. Any mixture of components will have hazards of all components. Before opening the packages read all warning labels. Observe all precautions.

Keep containers closed when not in use. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Emptied containers may retain hazardous residue. Do not cut, puncture or weld on or near these containers. Follow container label warnings until containers are thoroughly cleaned or destroyed.

FOR INDUSTRIAL USE AND PROFESSIONAL APPLICATION ONLY. KEEP OUT OF REACH OF CHILDREN.

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LIMITED WARRANTY.

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