



POLYCOR®

970C940/970C949

Wax Solutions

Copyright 1988 – 2011

Description

CCP's POLYCOR® 970C940 and 970C949 are wax solutions in monomer. POLYCOR® 970C940 is a 2% wax solution. POLYCOR® 970C949 is an 8% wax solution. 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. Advantages of the tack-free surface cure are:

- A. **Ease of patching**--Sanding of the patch does not gum the sandpaper.
- B. **No water spotting**--Air side cured surfaces of polyesters normally will blush and turn white when exposed to water; addition of wax solution completes the cure.
- C. **Clean ability**--The surface of the cured polyester will stay cleaner and be easier to clean.
- D. **Enamel**--Wax solution can be added to a gel coat to transform it into an 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.
- E. **Elimination of tackiness.**

Typical Liquid Properties (at 77°F)

Liquid properties of polycor® 970c940 and 970c949 are shown below. These values may or may not be manufacturing control criteria; they are listed for 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	970C940	970C949
Appearance	Liquid	Liquid
Color	Clear/Very light yellow	Clear/Very light yellow
Viscosity ¹	10 cps	10 cps
Hazardous Air Pollutants	Refer to MSDS	Refer to MSDS



970C940/970C949 - Copyright 1988-2011

Volatile Organic Compounds	Refer to MSDS	Refer to MSDS
Weight per Gallon	7.4 lbs.	7.4 lbs
Flash Point	88°F	88°F

¹Brookfield LVF, spindle #1 @ 60 rpm

Application

	POLYCOR® 970C940	POLYCOR® 970C949	Comments
A. Patching--Spray patches (If using PATCHAID®, additional wax solution is neither required nor recommended.)	10.0%	2.0%	Normally, patches are ready to sand in approximately 2 hours (2.0% catalyst and 77°F) when: <ul style="list-style-type: none"> ▸ the patch is dull in gloss ▸ the patch is tack free ▸ a fingernail will not dent or leave an impression.
Dab and putty patches	3.0%	2.0%	
B. Gel coat to enamel--	5.0%	2.5%	A minimum of 12 mils wet must be sprayed and temperature should be at least 70°F for proper cure.
C. Laminating Resin--	3.0%	1.0%	This modified product surface may encounter secondary bonding difficulties unless it is sanded.

Precautions

If the wax solution (particularly POLYCOR® 970C949) is allowed to cool to less than 70°F, it could become cloudy and, at this point, would 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 regarding the use of styrene should be followed.

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.



970C940/970C949 - Copyright 1988-2011

Avoid excess usage because this may increase yellowing on exposure due to natural weathering.

Storage Limitations

Polycor[®] 970C940 and 970C949 have a usage life of 120 days from date of manufacture when stored at 73°F, or below, in a closed, factory-sealed, opaque container, and out of direct sunlight. The usage life is cut in half for every 20°F over 73°F.

970C940/970C949 - Copyright 1988-2011

**CCP COMPOSITES US
WARRANTIES, DISCLAIMERS AND LIMITATION OF LIABILITY (Rev. 10/11)**

Seller warrants that: (i) Buyer shall obtain good title to the product sold hereunder, (ii) at Shipment such product shall conform to Seller's specifications; and (iii) the sale or use of such product will not infringe the claims of any U.S. patent covering the product itself, but Seller does not warrant against infringement which might arise by the use of said product in any combination with other products or arising in the operation of any process. **SELLER MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO SELLER. ANY APPLICATION INFORMATION OR ASSISTANCE WHICH SELLER MAY FURNISH TO BUYER IS GRATUITOUS AND SHALL IN NO WAY BE DEEMED PART OF THE SALE OF PRODUCT HEREUNDER OR A WARRANTY OF THE RESULTS OBTAINED THROUGH THE USE OF SUCH PRODUCT.**

Without limiting the generality of the foregoing, if any product fails to meet warranties mentioned above, Seller shall at Seller's option either replace the nonconforming product at no cost to Buyer or refund the Buyer the purchase price thereof. The foregoing is Buyer's sole and exclusive remedy for failure of Seller to deliver or supply product that meets the foregoing warranties. Seller's liability with respect to this contract and the product purchased under it shall not exceed the purchase price of the portion of such product as to which such liability arises. Seller shall not be liable for any injury, loss or damage, resulting from the handling or use of the product shipped hereunder whether in the manufacturing process or otherwise. In no event shall Seller be liable for special, incidental or consequential damages, including without limitations loss of profits, capital or business opportunity, downtime costs, or claims of customers or employees of Buyer. Failure to give Seller notice of any claim within thirty (30) days of shipment of the product concerned shall constitute a waiver of such claim by Buyer. Any product credit received by Buyer hereunder, if not used, shall automatically expire one (1) year from the date the credit was granted. Notwithstanding any applicable statute of limitations to the contrary, any action by Buyer relation to a claim hereunder must be instituted no later than two (2) years after the occurrence of the event upon which the claim is based. All the foregoing limitations shall apply irrespective of whether Buyer's claim is based upon breach of contract, breach of warranty, negligence, strict liability, or any other legal theory.

970C940/970C949 - Copyright 1988-2011

COMPOSITES SAFETY INFORMATION (October 2011)

All sales of products manufactured by CCP Composites US (CCP), and described herein, are made solely on condition that CCP's 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 Material 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 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 work place 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 Material Safety Data Sheet for each product (identified by product number) before using. If unavailable, these can be obtained, free of charge, from your CCP representative or from: CCP Composites US, P.O. Box 419389, Kansas City, MO 64141-6389; 816-391-6053.

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.