

Marble & Casting Product Line Guide

THERMACLEAN®





STYPOL[®]

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CCP offers a full line of products to meet the needs of the Marble and Casting industry including gel coats, resins, and cleaners. These are CCP's recommended products for the Marble and Casting market. Custom product development is available for specialty applications. Please consult your CCP Account Manager for more information.

Key liquid properties are shown for each product in the gel coat and resin product line to aid in differentiating the products. These values are not manufacturing control criteria and are listed for reference only. Particular batches will not conform exactly to the numbers listed because storage conditions, temperature changes, age, testing equipment (type and procedures) can each have a significant effect on test results. Products with properties outside of these values can perform acceptably. Final suitability of the product is in the end performance.

Additional information for a specific product can be found on the technical datasheet, liquid properties datasheet and MSDS.

I. Gel Coats

CCP's Marble and Casting gel coat product line includes marble clear, pigmented and specialty products.

Marble Clear Gel Coats

The following STYPOL[®] products have been designed specifically for use in the manufacture of cultured marble, onyx and granite.

CODE	VISCOSITY		THIX INDEX	GEL TIME		COMMENTS
	Value	Test Method		Value	Test Method	
Standard HAP's (>45%). ISO-NPG based containing MMA and UV stabilizer. Can still be used by manufacturers who are classified as Synthetic Minors.						
040-4917	2800cps	RVF #3 @ 20rpm	7.0	12 min.	2.0% Arkema DDM-9	Castable time = 45 min.
Low HAP's (< 42%) MACT Compliant gel coat. ISO-NPG based and does not contain MMA.						
040-4950	3000cps	RVF #3 @ 20rpm	6.5	6.0 min.	2.0% Arkema DDM-9	Castable time = 35 min.
040-4953	3000cps	RVF #3 @ 20rpm	6.8	4.5 min.	2.0% Arkema DDM-9	Faster gel time version of 040-4950. Castable time = 30 min.



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040-4956	2850cps	RVF #3 @ 20rpm	6.5	6.5 min.	2.0% Arkema DDM-9	Slightly faster cure than 040-4950. Cured color is bluish.
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Notes: 1. Viscosity tests run using a Brookfield viscometer at 77°F
2. Gel time values are for a 100gm mass at 77°F.

Pigmented Marble Gel Coats

Polycor® 99C series gel coats are specially formulated white and colored gel coats for the Cultured Marble Industry. **Polycor® 99C** series have low HAP's and VOC's complying with the following emissions standards:

- EPA National Emission Standards for Hazardous Air Pollutants (NESHAP): Reinforced Plastic Composites Production and
- South Coast Air Quality Management District (SCAQMD) Rule 1162.

Common product codes:

99C-WK-308 and 99C-WK-469 = White
99C-WK-556 = Glacier White
99C-WK-341 and 99C-WK-405 = Biscuit

Specialty Gel Coat

STYPOL® 040-4985 is specially formulated for use in spray granite applications.

CODE	VISCOSITY		THIX INDEX	GEL TIME		COMMENTS
	Value	Test Method		Value	Test Method	
040-4985	2000cps	RVF # 3 @ 20rpm	5.0	12 min.	2.0% Arkema DDM-9	For use with spray Granite effect. ISO-NPG with MMA. HAP's > 45%.

Notes: 1. Viscosity tests run using a Brookfield viscometer at 77°F.
2. Gel time values are for a 100gm mass at 77°F.

II. Resins

CCP's Marble and Casting resin product line includes standard marble, hybrid marble, DCPD marble, onyx, swing, solid surface and casting products. All products are sold under the **STYPOL®** trade name.

CODE	VISCOSITY		Value	GEL TIME		COMMENTS
	Value	Test Method		Test Method		
Standard Marble Resins						
040-5985	1200cps	LVF #3 @ 30rpm	13 min.	1.25% Arkema DDM-9		General purpose marble resin.
040-5859	3150cps	LVF #3 @ 12rpm	16 min.	1.25% Arkema DDM-9		Higher viscosity "tub" resin.
Standard Marble Resins specified using "hotter" catalyst type. Gel times will be longer if using standard catalyst (ie. DDM-9, MEKP-9).						
040-5722	1525cps	LVF #3 @ 30rpm	17 min.	1.25% Syrgis Norox MEKP-900		
040-5739	2300cps	LVF #3 @ 12rpm	13 min.	1.0% Akzo Cadox M-50		Higher viscosity



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						and faster gel time than 040-5722.
040-5785	1600cps	LVF #2 @ 12rpm	13 min.	1.0% Akzo Cadox M-50		Faster gel time than 040-5722.
040-5845	2300cps	LVF #3 @ 12rpm	20 min.	1.0% Akzo Cadox M-50		Longer gel time than 040-5739.
Hybrid Marble Resins						
040-6095	750cps	LVF #2 @ 12rpm	20 min.	1.0% Arkema DDM-9		
040-6097	750cps	LVF #2 @ 12rpm	27 min.	1.0% Arkema DDM-9		Longer gel time than 040-6095.
040-6098	750cps	LVF #2 @ 12rpm	15 min.	1.0% Arkema DDM-9		Faster gel time than 040-6095.

Notes: 1. Viscosity tests run using a Brookfield viscometer at 77°F.
 2. Gel time values are for a 100gm mass at 77°F.

CODE	VISCOSITY		GEL TIME		COMMENTS
	Value	Test Method	Value	Test Method	
100% DCPD Marble Resin					
040-6107	160cps	LVF #2 @ 30rpm	13 min	1.0% Arkema DDM-9	Extremely low viscosity. High filler loading.
Onyx Resin					
COMF-0821	1200cps	RVT #2 @ 10rpm	8 min.	1.25% Arkema DDM-9	Also used as a swing resin.
Swing Resins					
040-6069	1900cps	LVF #3 @ 12rpm	19 min.	1.0% Syrgis Norox MEKP-925	
040-6099	850cps	RVT #2 @ 20rpm	15 min.	1.25% Syrgis Norox MEKP-900	Lower viscosity and faster gel time (specified with "hotter" catalyst) than 040-6069.
Solid Surface Resin					
CDMC-2810	625cps	RVT #2 @ 20rpm	22 min.	2.0% Arkema DDM-9	ISO-NPG resin with MMA (methyl methacrylate monomer) and UV stabilizer.
Casting Resins					
Polymer Concrete					
040-6100	160cps	LVF #2 @ 30rpm	6.5 min.	1.0% Arkema DDM-9	100% DCPD. Low viscosity, fast gel time.
Flexible to semi-flexible unpromoted casting resins.					
040-5955	525cps	LVF #2 @ 30rpm		Unpromoted	Highest flexibility.
040-5889	575cps	LVF #2 @ 30rpm		Unpromoted	Slightly higher viscosity version of 040-5955.
040-6021	75cps	LVF #2 @ 60rpm		Unpromoted	Lower viscosity and less flexible version of 040-5889.



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040-5991	75cps	LVF #2 @ 60rpm	Unpromoted	Less flexible version of 040-6021.
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Notes: 1. Viscosity tests run using a Brookfield viscometer at 77°F
2. Gel time values are for a 100gm mass at 77°F.

III. Cleaners

CCP offers water-based and solvent-based cleaning products suitable for use in the marble and casting industry.

TRADENAME	CODE	DESCRIPTION
THERMACLEAN® GUN FLUSH	095-0063	Extra strength solvent for tough cleaning applications including autocaster cleaning.
THERMACLEAN® NO RINSE	095-0072	Multiple application economy spray cleaner for finished parts and slipperiness associated with slow evaporating solvents.
THERMACLEAN® MARBLEWASH®	095-0113	Solvent-based cleaner formulated specifically for removing cultured marble and solid surface matrix and featuring patented anti-gelling chemistry

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**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.

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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.