



# Epoxy Coating System

## Self-Leveling, low viscosity

### 100% Solids, VOC Compliant

TECHNICAL DATA SHEET | REVISION: 00 | MARCH 2016

DESCRIPTION	CR-Liquid Marble is a solvent-less, two component epoxy coating system. It exhibits very good appearance and chemical and physical properties. It was developed for systems that require a low viscosity epoxy coating for easier application				
ADVANTAGES	<ul style="list-style-type: none"> <li>Dense surface resistant to bacteria and moisture and easy to clean.</li> <li>May apply several layers on itself with excellent adhesion.</li> <li>Contains no solvent with a very low VOC content, allowing for interior application without harmful odors.</li> <li>Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate.</li> </ul>				
TECHNICAL DATA	Packaging	11.35 L (3 US gal.) and 56.7 L (15 US gal.)			
	Color	Part A	Part B	Mix	
		Upon Request	Clear to Amber	Upon Request	
	Recommended Thickness	Primer		Finish Coat	
		6 – 8 mils		8 – 12 mils	
	Mileage per gallon (8 mil thickness)	200 ft <sup>2</sup>			
	Mix Ratio, by volume	A:B = 2:1			
	Mix Ratio, by weight				
	Clear	A:B = 100:41 - 48			
	Colors	A:B = 100: 39 - 45			
	Pot Life (454 g)	40 – 50 minutes at 25°C			
	Open Time on Substrate	15 – 20 minutes			
	VOC (g/L)	75.40 g/L			
	PROPERTIES @ 23°C (73°F) AND 50% R.H.	Solids Content, by weight	100%		
Solids Content, by volume		100%			
Density (kg/L)		Part A	Part B	Mix	
		Clear	1.05 – 1.10	0.9 – 1.0	--
Colors		1.10 – 1.15	0.9 – 1.0	--	
Thinner Recommended		SCT-0001			
Waiting Time / Overcoatability					
Before Applying CR-Liquid Marble over primer		Substrate Temperature	Minimum	Maximum	
		+ 10°C	24 hours	3 days	
		+ 20°C	12 hours	2 days	
		+ 30°C	6 hours	1 day	
Before Applying Second Coat of CR-Liquid Marble		Substrate Temperature	Minimum	Maximum	
		+ 10°C	30 hours	3 days	
		+ 20°C	24 hours	2 days	
		+ 30°C	16 hours	1 day	
Curing Details		Substrate Temperature	Foot Traffic	Light Traffic	Full Cure
			+ 10°C	30 hours	5 days
		+ 20°C	24 hours	3 days	7 days
	+ 30°C	16 hours	2 days	5 days	
Service Temperature	-20°C to 50°C				
* Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity. *					
Bond Resistance (psi), ASTM D4541	>300 (substrate ruptures)				





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Permeability (%), ASTM D570	0.3%		
Hardness (Shore D), ASTM D2240	85 – 90		
Abrasive resistance, ASTM D4060 (CS17 / 1000 cycles / 1000 g)	0.10 g		
Viscosity @ 25° C	<b>Part A</b>	<b>Part B</b>	<b>Mix</b>
Clear	1200 – 1400	75 – 125	600 – 700
Colors	1400 – 1600	75 – 125	1200 – 1400
Traction Resistance (psi), ASTM D638	6500		
Compressive Strength (psi), ASTM D695	14000		
Flammability	Class ( (Not considered Flammable, Flash Point >93°C)		
Elongation %, ASTM D638	6.7		
Resistance to Mold Growth, ASTM D3273	Rated 10 (highest resistance)		
Resistance to Fungi Growth, ASTM G21	Rated 0 (no growth)		

\* Please note, that the indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage. \*

SURFACE PREPARATION	Old Concrete	New Concrete
	Concrete surface must be cleaned. BLASTRAC, sand blasting, diamond grinder w/30 grit or coarse, or water blasting is highly recommended to remove surface contaminates. Any oils and fats must be removed prior to product application. Acid etching may be required (followed by a thorough rinsing) to open the pores of the concrete to accept a primer. Do not apply to wet substrates. Chloride, moisture, and pH levels should be checked prior to application. In almost every application, a primer is recommended prior to use of CR-Liquid Marble.	The concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lbs./inch <sup>2</sup> ) after 28 days and traction resistance must be at least 1.5 MPa (218 lbs./inch <sup>2</sup> ). BLASTRAC, sand blasting, diamond grinder w/30 grit or coarser or acid etching (followed by a thorough rinsing) is required to remove the surface laitance that appeared during the curing process. A primer should be used to reduce out-gassing and promote adhesion.
<b>MIXING</b>	Materials should be pre-conditioned to a minimum of 10°C prior to use. Thoroughly mix each component separately using paddle mixers and a drill for a minimum of 2 minutes to place the solids content evenly in suspension. Pour component B into component A using the proper mixing ration of 2A:1B by volume. Mix both components for at least 3 minutes using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life of mixture.	
<b>APPLICATION</b>	Apply mixed product on the prepared surface tightly (thin film) using a rubber rake and pass a roller to obtain a uniform coating. Avoid creating puddles.	
<b>CLEANING</b>	Clean all tools and materials with the cleaner/thinner for epoxies. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.	
<b>RESTRICTIONS</b>	<ul style="list-style-type: none"> <li>• Minimum/Maximum temperature of substrate: 10°C / 30°C (50°F / 86°F)</li> <li>• Maximum relative humidity during application and curing: 85%.</li> <li>• Substrate temperature must be 3°C (5.5°F) above dew point measured.</li> <li>• Humidity content of substrate must be &lt;4 % when coating is applied.</li> <li>• Do not apply on porous surfaces where a transfer of humidity may occur during application.</li> <li>• Avoid exterior use on substrates at ground level.</li> <li>• Protect from humidity, condensation and contact with water during the 24 hour initial curing period.</li> <li>• Surface may discolor in areas exposed to regular ultraviolet light.</li> </ul>	





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<b>HEALTH AND SAFETY</b>	<p>In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse.</p> <p>Components A &amp; B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation.</p> <p><b>*Consult the material safety data sheet for further information*</b></p>
<b>IMPORTANT NOTICE</b>	<p>All statements, recommendations and technical information contained in this document are accurate to the best knowledge of Concrete Revolution, LLC. The data relates only to the specific material designated herein. It may not be valid if used in combination with any other materials. It is the users' responsibility to verify suitability of this information for their own particular use, and to test this product before use. Concrete Revolution, LLC assumes no legal responsibility for use upon these data. Concrete Revolution, LLC assumes no legal responsibility for any direct, indirect, consequential, economic, or any other damage except to replace the product or refund the purchase price as set out in the purchase agreement.</p>

