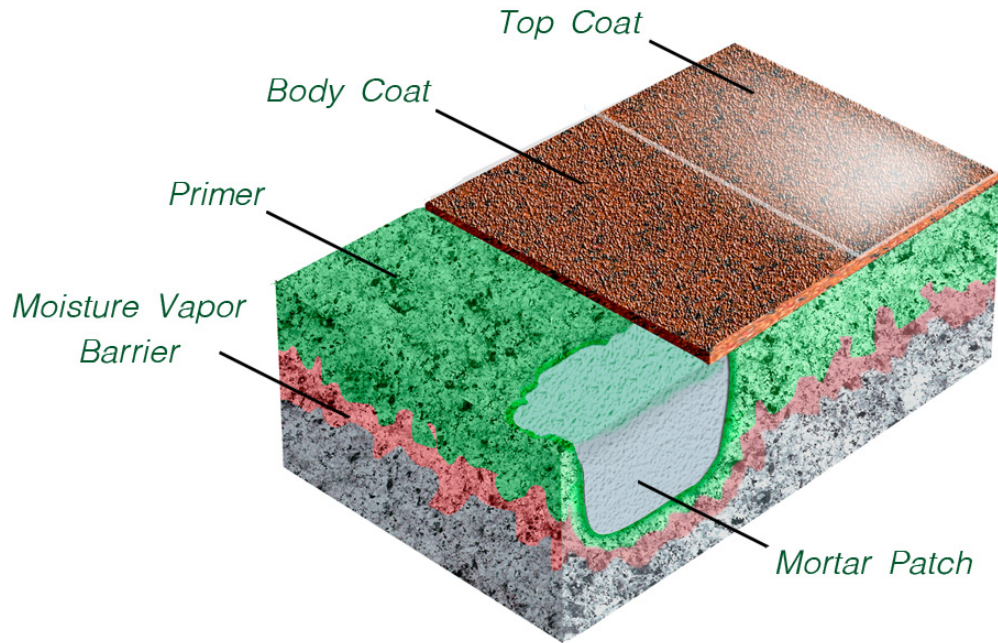




Quartz Flooring Systems Product Data Sheet

Expect more from your floor.
Silikal America



Product Overview

Silikal Color Quartz Flooring Systems are heavy duty, decorative floors for use in hygiene critical areas including food processing and packaging, commercial kitchens, groceries, fisheries, breweries, bakeries, dairies, veterinary clinics. These systems cure quickly and can be put to full use in as little as one hour after the final coat is applied. The fast cure makes these systems ideal for floor repair in manufacturing environments where production cannot be interrupted. Silikal Color Quartz Floors are based on reactive resin technology that combines both high strength and flexibility to impart optimum performance properties including impermeability and resistance to impact, cracking, thermal shock and abrasion. The color quartz provides decorative color choices and a texture suited to the customary use of any facility.

Typical Uses

61 CQ is the standard hygiene critical flooring system for the food and beverage industry. Because of its impermeable surface, it is always cleanable. Because of its controllable texture, it will remain slip resistant during conventional wash downs and operations. Commercial kitchens, groceries, bakeries, dairies, breweries, bottling, seafood, poultry, meat processing and packaging.

61 CQ M incorporates a flexibilized membrane to impart additional crack suppression and waterproofing characteristics to the flooring system. Upper story environments including kitchens, wet production or storage facilities. May also be used over properly bonded and prepared quarry tile and plywood surfaces.

368 CQ is a highly flexibilized system to be used where thermal change or impact are likely to occur. Loading docks, traffic aisles, freezers and coolers, mechanical equipment rooms, mezzanine production or storage. May also be used over properly prepared metal, tile or wood surfaces.

Composition & Materials

Silikal Color Quartz flooring is a composite of transparent, 100% reactive polymers and colored quartz aggregates. Polymerization occurs with the quantified addition of a peroxide initiator.

COLORS: Nine standard blends. Custom blends can be made from thirteen standard solid colors.

Visit Silikalamerica.com web site for color selection and color mixing tool.

FINISHES: UV resistant, non-glare matte finish. Topcoats are available for typical ambient operating conditions (SILIKAL R 71) or wet, hot water exposure operating conditions (SILIKAL R 81).

COVING: An integral trowelled cove base is available with all Silikal Color Quartz Flooring.

SLOPE & FILL: Can be accomplished quickly and effectively using SILIKAL R 17 Repair mortar.

MVT TREATMENT: If required, excessive moisture vapor transmission can be treated with SILIKAL RE 42. This product is a two component amine cured epoxy resin system.

Limitations

Silikal floors must be installed by professional, qualified applicators. Silikal sells only to licensed installers who are properly equipped and trained to successfully install these systems.

Silikal products emit a mild odor during installation and cure. Proper ventilation is required through completion. The odor is not deemed harmful. Foodstuffs must be removed or protected.

Silikal products can be applied at temperatures as low as 0° C (32°F) and must be applied at temperatures below 35° C (95° F).

The concrete subfloors on or below grade must be adequately waterproofed beneath and at the perimeter of the slab.

Substrate must be sound, clean, properly prepared and free from hydrostatic pressure. Concrete shall have a moisture vapor emission rate of no more than 5 lbs. per 1000 sq. ft. per 24 hour period as determined by proper Calcium Chloride Testing. Concrete R/H must be 85% or less as measured by Protimeter. Readings greater than 5 by the Calcium Chloride method or 85% by Protimeter, may require a preliminary treatment with Silikal RE 42. Consult the SILIKAL AMERICA technical department.

Physical Characteristics (61-CQ)

Percentage of reactive resin:	100%
Percentage of solids:	100%
Water Absorption, Wt. % (ASTM D570):.....	0.04
Compressive Strength, psi	
(ASTM C109):	6,000-8,000
(ASTM D695):	6,000
Tensile Strength, psi (ASTM D638):	3,625
Tensile Modulus, psi (ASTM D638):	720,000
Flexural Strength, psi (ASTM D790):	3,500
Coefficient of Thermal Expansion, in. / in. / F°	
(ASTM D696):.....	0.000019
Electrical Resistivity, (ASTM D257) Volume Resistance, ohm-cm:	10 ¹⁴

Chemical Resistance (ASTM D543)

Effect of weak acids:	none
Effect of strong acids:	slight
Effect of alkalis:	none
Effect of salt solutions:	none
Effect of oil, grease:	none
Effect of solvents:	poor resistance

Consult 'Chemical Resistance Guide' for more detail.

Note: Physical properties are defined for 61-CQ. 61- CQ M and 368-CQ incorporate the flexibilized reactive resin RV-368 as a crack suppressant and waterproofing membrane. This will provide an elongation at rupture of 170% at room temperature. Consult RV 368 product data for more information.

Installation

Application of SILIKAL Color Quartz Flooring consists of:

- Proper environmental protection, ventilation and surface preparation.
- Mix and apply moisture vapor treatment (if required).
- Mix and apply the primer.
- Mix and apply coving (if required)
- Mix, then patch and slope with polymer concrete (if required).
- Mix primer and re-prime polymer concrete areas.
- Mix and apply the topping, broadcasting the color quartz.
- Mix and apply the topcoats.

SILIKAL Color Quartz Flooring is ready for full use in as little as one hour after the final topcoat is applied.

Safety

Material Safety Data Sheets are available from Silikal America and should be consulted prior to use of the product. These products are intended for use only by professional installers. Keep away from children and those not trained in the use and potential hazards involved.

Resin components are flammable and must be handled accordingly. Adequate ventilation must be provided during mixing and application process. Cured materials are completely inert and safe. A finished Silikal Color Quartz floor will not support combustion.

Maintenance

CLEANING

Silikal Color Quartz Flooring can be steam cleaned, pressure washed, power scrubbed or hand scrubbed. Some textures can be mopped. Rinse thoroughly to remove soap and dirt residue. Change rinse water frequently as needed. Avoid solvent containing cleaners. Mineral spirits can be used to remove rubber marks.

REPAIR

Chemical bonding allows fast and easy repairs or re-surfacing if necessary.

Certifications

ISO

Products are manufactured under an ISO 9001 quality management system and an ISO 14001 environmental management system.

USDA

Materials comply with USDA requirements for use in federally inspected meat and poultry plants.

Ag Canada

Accepted by Agriculture Canada Food Production and Inspection Branch for use in registered establishments.

LEED

In accordance with SCAQMD Rule 1113 and ASTM D 2369 these products are in compliance with the VOC and chemical component limits of Green Seal requirements. Other LEED credits are possible, consult manufacturer's Certifications Bulletin.

BRC

Silikal Color Quartz Flooring provides a cleanable, hygienic and slip resistant surface that will allow you to achieve BRC Global Standards certification.



Warranty

Silikal America warrants that materials shipped to buyers are at the time of shipment substantially free from material defects and will perform substantially according to Silikal published literature if used strictly in accordance with Silikal prescribed procedures and prior to expiration date. Silikal America liability with respect to this warranty is strictly limited to the value of the material purchased. Project specific warranties are issued at the sole discretion of SILIKAL AMERICA.



**Expect more from your floor.
Silikal America**

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