

LIQUID CRYSTAL[®]

ARTISTIC FLOORING DESIGNS



LIQUID CRYSTAL®

Liquid Crystal gives design freedom to create one-of-a-kind artistic finishes that beautify commercial and residential spaces. It offers unlimited choices of color palettes and patterns that match expectations for attractive aesthetics, customized finishes, worry-free maintenance, waterproof properties and above all hard-wearing qualities.

www.colortek.eu

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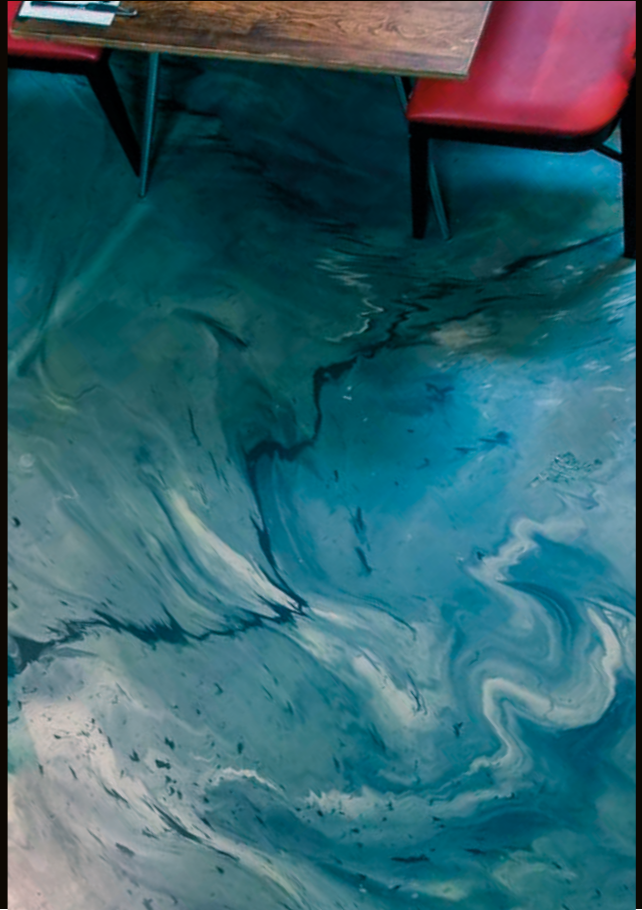


ARTISTIC FLOORS, DECORATIVE PANELS, & BESPOKE FURNITURE.

Liquid Crystal gives design freedom to create one-of-a-kind artistic finishes that beautify commercial. Combining art and technology, Colortek® Liquid Crystal offers exquisite creativity and versatile functionality to create artistic floor coatings, decorative wall panels, decor accessories, and bespoke furniture.

Liquid Crystal can be used with various Colortek® elements such as decorative coatings, printed graphics, stencils, pigments, glitter and others to unleash unique designs for unmatched floor finishes.

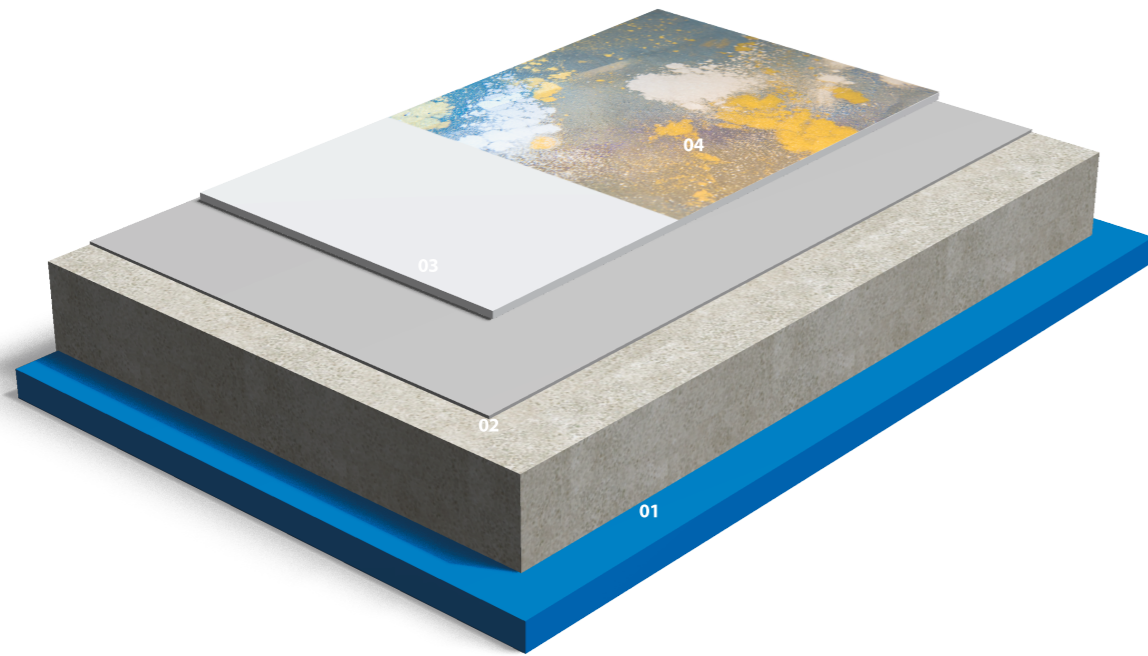




LIQUID CRYSTAL BROCHURE

LIQUID CRYSTAL BROCHURE 8

LIQUID CRYSTAL FLOORING SYSTEM



01 CONCRETE SUBSTRATE

When required, surface preparation should follow the guidelines of the International Concrete Repair Institute (ICRI) for CSP1 to CSP4.

02 SX0 PRIMEWELL

Epoxy primer to seal and saturate porous concrete surfaces. When surfacing humidity is suspected, apply SX9 HumiGuard instead.

03 NEOFILLER OR SX5 WORXGUARD

Leveling basecoat.

04 LIQUID CRYSTAL

Any design is possible at this stage, from abstract to elaborate geometrical or organic patterns.



TESTING RESULTS

KEY QUESTIONS & ANSWERS

How durable is Liquid Crystal®?

Applied and properly maintained, Liquid Crystal® should last indefinitely.

Is Liquid Crystal® suitable for commercial & residential spaces?

Liquid Crystal® is a versatile decorative finish with high resistance to wear and tear, suitable for any interior space design.

Can I apply Liquid Crystal® in bathrooms & showers?

Liquid Crystal® can be applied on bathroom and shower floors, and for the installation of wall decorative panels.

Will wine and oil stain my surface?

The properties of Liquid Crystal® can protect the flooring from spilled liquids such as wine, coffee or oil.

Can Liquid Crystal® be used with underfloor heating systems?

Yes, Liquid Crystal® can be used with underfloor heating systems.

Are different finishes, textures & colors possible with Liquid Crystal®?

The design possibilities of Liquid Crystal® finishes are limitless, as any type of design applied onto the base coat will be protected and highlighted by the Liquid Crystal® casting. The addition of iridescent powders, pearl effects, natural clay, luminescent and phosphorescent pigments allow the creation of an infinite number of results, limited only by the range of the artist's creativity.

Can Liquid Crystal® be applied on terrazzo?

In the presence of terrazzo tiles, we recommend the application of an additional coat of Neofiller. Terrazzo tiles come in a wide variety and differ greatly in their composition, with some prone to humidity permeability. Neofiller being a highly efficient humidity blocker, the additional coat will help in preventing the surfacing of humidity.

Can Liquid Crystal® be applied on ceramic tiles?









Ceramic tiles should be slightly sanded to promote adherence and when applying on ceramic tiles, it is important to remove or block the joint tiles with Colortek® epoxy joint filler SX2 FillWell. Ceramic tiles joints are traditionally filled with cement-based tiling grout which is prone to letting humidity pass where as the epoxy based SX2 FillWell grout with an additional coat of Neofiller will prevent the ghosting effect.

How to avoid water filtration when cleaning?

When applying Liquid Crystal® it is important to apply it flush to the wall and to create a virtual skirting that impedes water filtration underneath the decorative coat by applying a protective transparent sealer up to 3 cm vertically.

What is the difference between SX0 and SX9?

Colortek® SX9 HumiGuard has additional humidity blocking and gripping properties which can help in preventing the surfacing humidity, while providing additional grip to subsequent layers of the Liquid Crystal® system.

TEST	FEATURE	NORM	RESULT
	Indoor Air Quality	UNI EN ISO 16000-9:2006	A+ For Low VOC Emissions
	Solids Content		100%
	Spreading Rate		1,2 Kg/m ² /mm
	Compression	ISO 604	80 N/mm ²
	Bending Resistance		56 N/mm ²
	Elongation at Break	ASTM D412	7,5 - 8%
	Elastic Modulus		1800 Mpa
	Slip Resistance	ASTM C1028 DIN 51130:2004	SRV >70 R12 for Good Slip Resistance

“There are no rules of architecture for a castle in the clouds.”

- Gilbert K. Chesterton



MAINTENANCE BEST PRACTICES

Mopping

This should be the cleaning method for small to medium residential surfaces or when dealing with spillages.

In normal every day usage, the mop and bucket may remove heavy soiling, on condition that the water is changed frequently.

A pH neutral chemical cleaner is to be used.

Before mopping, sweep the area to remove any loose hard edges debris.

Dilute the chosen pH neutral chemical cleaner according to the manufacturer's instructions with warm water, mop onto the floor and allow to sit for up to 3 minutes.

After 15 minutes, the area can be scrubbed with a soft buffing pad to loosen the residue.

Then, flush with water and remove excess solution from the floor surface.

Floor Scrubbers

For large commercial areas we recommend the usage of walk-behind and ride-on wet scrubbing machines.

When using floor scrubbers, we recommend the buffing (soft) pads for Liquid Crystal Flooring daily maintenance cleaning.

Before cleaning, sweep the area to remove any loose hard edges debris.

When using ride-on and walk-behind floor scrubbers, use a three step process: the first pass

is to be made with the vacuum and squeegee turned off; the second pass using the squeegee, and vacuum and the third pass, with only clean water in the tank, using squeegee and vacuum to thoroughly rinse the floor.

Precautions

Although Colortek floors have good mechanical resistance, they may be subject as all materials to time related degradation such as scratches and shine loss. Fine particles of dust, dirt and loose debris, act as abrasives with traffic unless the floor is cleaned regularly. Basic precautions should also be taken to properly maintain the floor.

Provide a doormat at the entrance that can trap dust, sand and abrasive particles.

Put felt pads under the furniture, especially the movable ones like chairs.

In the event that heavy furniture has to be moved, place woolen cloth at the base of the furniture.

Before carrying out painting, electrical or plumbing works, protect the floor with woolen blankets and nylon sheets.

Quickly clean all stagnant spills of aggressive liquids such as wine, oil, vinegar and coffee.

Disclaimer

Failure to maintain a cleaning routine can affect the performance of Liquid Crystal. Make sure you read the health and safety data sheet before using any cleaner.

ENSURING A PERFECT LIQUID CRYSTAL FLOORING FINISH

Colortek Liquid Crystal has been designed to comply with the most demanding requirements, especially when it comes to durability, mechanical properties and chemical resistance.

However, Colortek's flooring ultimate performance depends to a great extent on the correct preparation and conditioning of the surface to be treated.

Recommended surface preparation should follow the guidelines of the International Concrete Repair Institute (ICRI). Key to the guidelines is ICRI's Concrete Surface Profile (CSP) classifications, a system of ten distinct textures ranging from CSP1 (nearly flat) to CSP10 (extremely rough) used as a visual representation of desired concrete surface textures, roughness and general appearance.

The guideline designates each CSP classification as a suitable base for specific coating types and thicknesses. The Concrete Surface Profile (CSP) also describes the methods or equipments typically used to achieve the texture according to the CSP classification.

LAITANCE

Laitance is the weak, milky layer of cement and sand that rises to the concrete surface as a result of premature finish or troweling. If a coating is applied directly to the laitance layer, the floor traffic will cause disbanding of the coat.

CONTAMINATIONS

Old concrete floors can be contaminated by oil, grease, chemicals and other stains. Check the surface for dark patches that indicate contamination. Spray water on the surface to see if it is absorbed. If water stays on the surface, then it indicates contamination.

POROUS CONCRETE

The common procedure is to sand and apply a primer that penetrates the substrate.

POLISHED CONCRETE AND NON-POROUS CONSTRUCTION MATERIALS

It is essential to apply proper primers. For high-performance systems such as those applied in hygienic areas, shot blasting, scarifying or grinding is necessary. It can be applied up to 3mm DFT depending on the specification.

WELL ATTACHED OLD PAINT

Should be sanded in order to ensure good adhesion.

BADLY ATTACHED OLD PAINT

Remains of badly attached, old materials must be removed as these can cause detachment.

DAMP

Surfaces that have problems with dampness require water-borne systems that permit vapor permeability. If they don't comply with these requirements, there will be an increased risk that the flooring will blister or detach.

