



Swimming pool guide

High performance systems for composite swimming pools



” HEAR WHAT OUR CUSTOMERS SAY

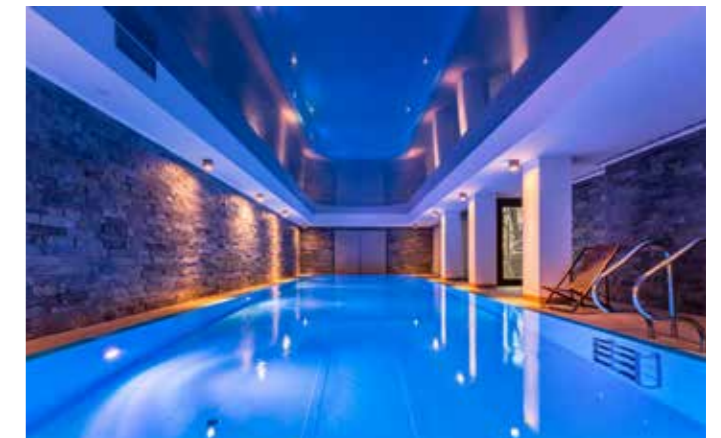
Scott Bader is the partner of choice in the manufacturing of our swimming pools at LPW Corporate. With high performance gelcoats and resins such as Crystic® G 976 SMK and Crystic® 397PA, we get excellent performance for debulking and superb resistance to hydrolysis and chemical/UV degradation. These products also fit well with our automated process.

Baudouin de Troostembergh
General Manager, LPW Corporate

OVERVIEW

HIGH PERFORMANCE CRYSTIC® GELCOATS FOR SWIMMING POOLS

Scott Bader has long invested in market leading research and development from laboratory to application, combining superior pigment technology with our industry leading Crystic® performance systems for unrivalled performance.



TECHNICAL PERFORMANCE BENEFITS

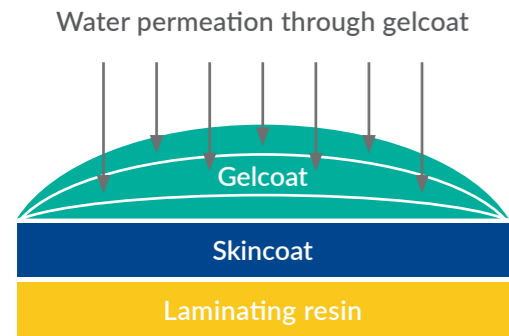
- Exceptional aesthetic finish and protection
- High quality coating
- Long-term performance
- Chemical resistance
- High performance reinforced laminate

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COMMON ISSUES WITH COMPOSITE SWIMMING POOLS

OSMOSIS



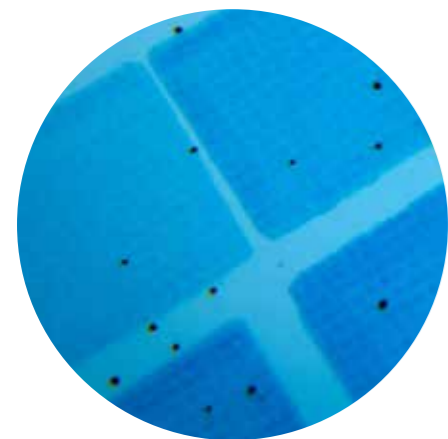
Potential causes

- Protection of the laminate is weak due to the gelcoat being too thin
- Under cured as a result of the level of peroxide and/or an unsuitable working temperature
- Poor application with microporosity in the gelcoat and/or bubbles in the skin coat
- Non-specialised products which can result in poor chemical resistance and/or the use of emulsion CSM behind the gelcoat

Crystic® solutions and benefits

- Using our Crystic® pool grade gelcoats with VE679PA skin coat ensures an optimised barrier to osmosis
- Excellent osmosis resistance when tested at 40°C for 12 months
- Zero porosity achievable with 700-800µ cured film thickness
- Fast curing properties using Crystic® VE679PA

BLACK SPOTS



Cause of problems

- Black algae development
- Copper salt deposit
- Gelcoat cobalt oxidation

Crystic® solutions and benefits

- Low cobalt content
- High level of pigment dispersion
- No microporosity
- High water resistance



PRODUCT RANGE

PRODUCT	DESCRIPTION	GELTIME (mins)	TENSILE STRENGTH (MPa)	TENSILE MODULUS (GPa)	HDT (°C)	WATER ABSORPTION (mg)	AVAILABILITY*
Gelcoat NPG/ISO ensures aesthetics and protection							
G 976 SMK	Spray ISO/NPG gelcoat with high chemical resistance and low colour fading	9	70	3.4	90	14	EU
G 997 SMK	Water clear spray ISO/NPG gelcoat used with glitters or chips for special effects	11	70	3.4	90	14	EU
Skincoat ensures chemical resistance							
VE 679PA	Modified vinyl ester resin with good chemical resistance and rapid curing	23	52	3.0	94	15	UK, EU, Middle East, Africa, Oceania, India, South East Asia
VE 682PA	Isophthalic modified vinyl ester resin for skin coat applications	17	74	3.6	82	16	EU
397PA	ISO/NPG polyester resin with high HDT	8	65	3.5	117	19	UK, EU, Africa
Laminating resin ensures the mechanical performance of the swimming pool							
2-446PA	Pre-accelerated, thixotropic, spray viscosity polyester resin with low styrene emission	25	50	3.8	67	15	UK, EU, Middle East, Africa, Oceania, India, South East Asia
491PA	Thixotropic, isophthalic polyester resin with good water and chemical resistance	12	77	3.5	77	17	UK, EU, Middle East, Africa, Oceania, India, South East Asia
489PA	Thixotropic, isophthalic polyester resin	12	76	3.5	77	17	UK, EU, Africa, South America
Topcoat ensures the protection of the back of the laminate							
65PAX	Brush ISO topcoat with good resistance to water ingress	9	75	3.5	75	18	UK, EU, Middle East, Africa, Oceania, India, South East Asia

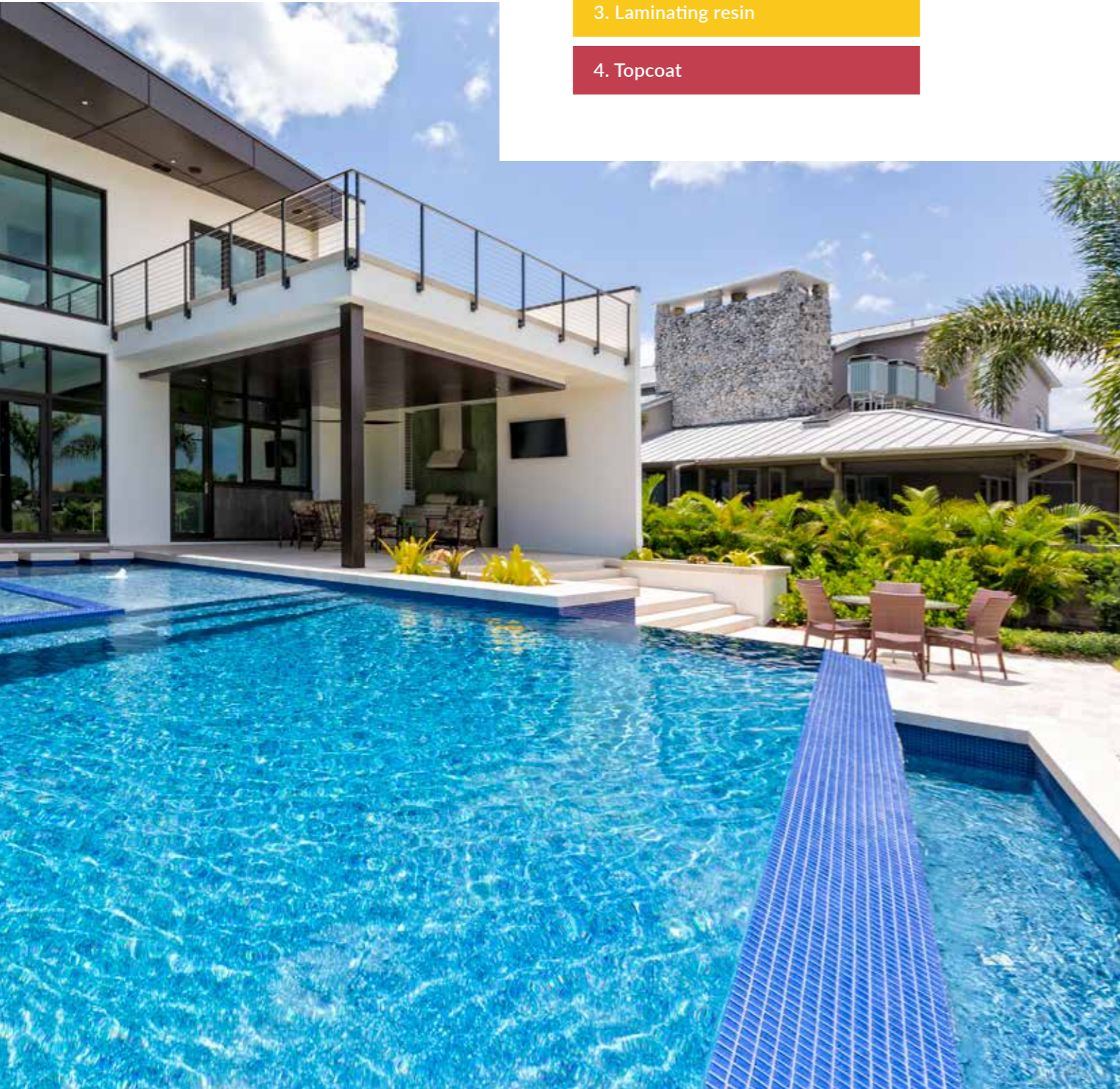
*Availability - minimum and maximum batch/consignment sizes may apply. Subject to revision due to specific country regulatory changes. Products may not be available in all countries within stated region, check with local SB representative.

TYPICAL SWIMMING POOL CONSTRUCTION

Following extensive research and development on the use of pigments in swimming pools, Scott Bader now offers highly chemical resistant pigments to avoid colour fading, which is a major issue experienced in swimming pools.

Optimum construction

1. Gelcoat
2. Skincoat
3. Laminating resin
4. Topcoat

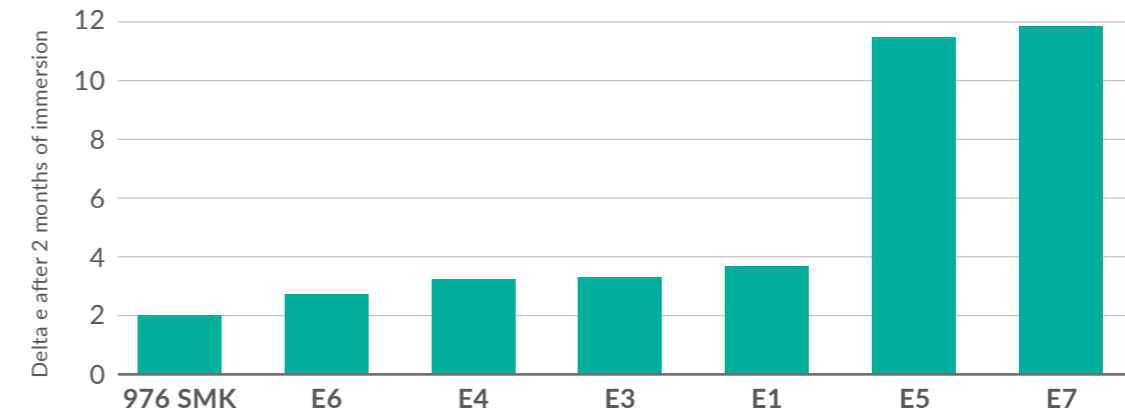


CHEMICAL RESISTANCE PERFORMANCE - CHLORINATED WATER AT 5% CONCENTRATION

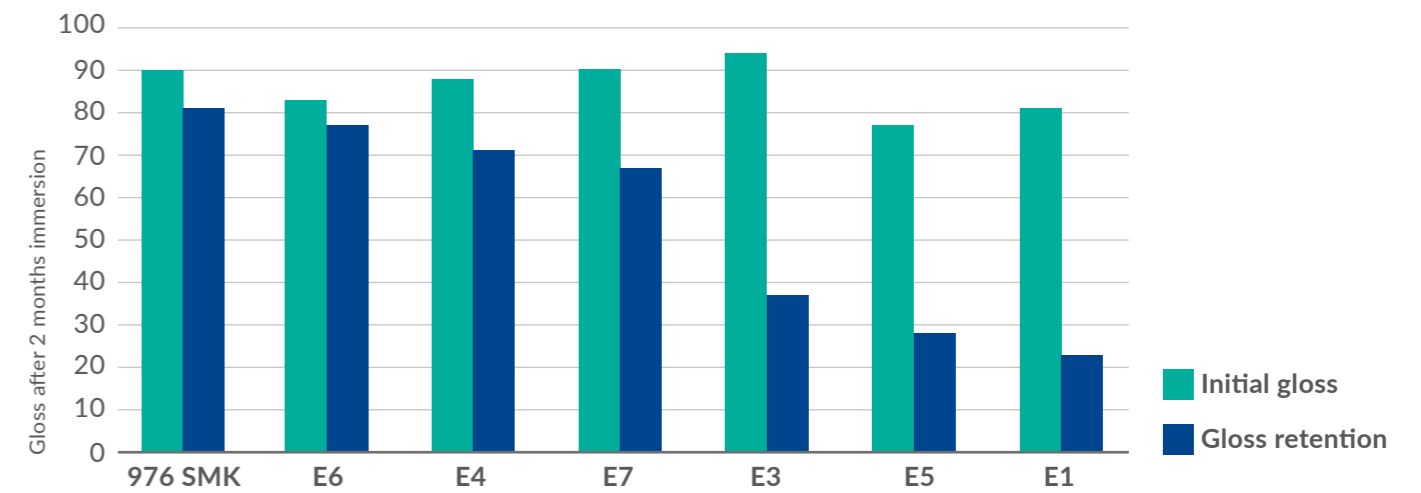
The charts below show superior performance from Scott Bader's Crystic® system for both gloss retention and colour shift vs. several competitive products.



Hypochlorite resistance (5% concentration - 2 months)



Hypochlorite resistance (5% concentration - 2 months)



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