



PC-SL™ Technical data Sheet

DESCRIPTION

PC-SL™ is a self-leveling heavy duty, polyurethane -based cementitious mix designed to provide excellent resistance to impact, abrasion and chemical attack. PC-SL™ exhibits excellent adhesion and can be applied with a quartz aggregate to increase slip resistance. This system behaves plastically under impact; deforms but will not crack or de-bond. PC-SL™ has similar coefficient of thermal expansion to concrete allowing movement with the substrate through normal thermal cycling. PC-SL™ is usually installed at a thickness of 1/8" – 1/4".

Available in Red / Grey Kits

ADVANTAGES

- Easy to apply self-leveling slurry
- Chemical resistant
- Thermal expansion of existing concrete
- Excellent abrasion, impact resistance
- Superior adhesion to concrete
- Resistant to moisture, mold, fungi, bacteria
- Odor Free
- Self-priming

Areas of Use

- Food processing plants
- Chemical processing plants
- Commercial / Industrial Kitchens / Freezers /Cooler
- Distilleries / Wineries
- Meat / Fish / Poultry packing plants
- Machine shops
- Heavy duty manufacturing
- Bathrooms
- Restaurants / Bars



PC-SL™ Technical data Sheet

Product Data

Ratio	A: B:C KIT 32 lbs. Mix full amounts only	
Color	Grey /Red	
Coverage	15 Sqft @1/4"	
	30 Sqft @1/8"	
VOC	1.2 g/L	
Application Temperature	45-85°	
Pot Life	20-25 minutes @70°	
Working Time	20-25 minutes @75°	
Cure Times	8-10 hrs. Dry to Touch	
	10-12 hrs. Foot Traffic	
	5 Days Full Cure	
Shelf Life	12 months	

Physical Data

Bond Strength	300 psi (failure of substrate)	ASTM D4541
Abrasive Resistance	.12 g (CS17 / 1000 cycles/ 1000 g	ASTM D4060
Compressive Strength	6,000psi	ASTM C579
Flexural Strength	2,400psi	ASTM C580
Softening point	265°F	
Tensile Strength	1045psi	ASTM C307
Flammability	Self-Extinguishing	
Water Absorption	0.12%	ASTM C413
Hardness (Shore D)	82-87	ASTM D2240
Resistance to Mold Growth	10/10 highest rating	ASTM D3273
Resistance to Fungi Growth	Rated 0 (no growth)	ASTM G21
Flow	12.80 in	
Thermal Compatibility	Pass	ASTMC884

Technical Data Sheet



PC-SL™ Technical data Sheet

SURFACE PREPARATION

Concrete surfaces must be clean and sound. Remove all dust, dirt, existing paint films, efflorescence, exudates, laitance, form oils, hydraulic or fuel oils, brake fluid, grease, fungus, mildew, biological residues or any other contaminants which may prohibit good bond.

Prepare the surface by any appropriate mechanical means. The compressive strength of the concrete substrate should be at least 25 MPa (3625 psi) at 28 days and a minimum of 1.5 MPa (218 psi) in tension at the time of application. Repairs to cementitious substrates, filling of blowholes, levelling of irregularities, etc. should be carried out using an appropriate mortar.

Expansion Joints: should be provided in the substrates at the intersection of dissimilar materials. Isolate areas subject to thermal stresses, vibration movements or around loadbearing columns and at vessel sealing rings.

MIXING INSTRUCTIONS

Mixing will be affected by temperature; condition materials for use to 60 -70°F. Premix components A and B separately, make sure all pigment is uniformly distributed. Start mixer; add component A and component B blend for 30 seconds.

Add component C (powder) pouring slowly over a period of 15 seconds. **DO NOT DUMP!** Allow component C to further blend for 2 more minutes to ensure complete mixing. During the operations, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once (Components A+B+C) to ensure complete mixing. Mix full units only.

(Rubber Gloves Are Recommended)

Variable Mixes:

For Trowel-able mix – Add 5 pounds 40 mesh Silica Sand (per kit)

For Cove Base mix – Add 18 pounds 40 mesh Silica Sand (per kit)



PC-SL™ Technical data Sheet

APPLICATION

Body coat: Priming of concrete substrates is not usually required under typical circumstances. However, due to variations in concrete quality, surface conditions, surface preparation and ambient conditions, reference test areas are recommended to determine whether priming is required to prevent the possibility of blisters, de-bonding, pinholes and other aesthetic variations.

Mix and pour the **PC-SL** materials on the floor. Spread to the desired thickness (1/8" – 1/4") using a notched squeegee, trowel or screed bar. Take care to spread newly mixed materials across the transition of previous applied mixes before the surface begins to set. Spike roll the surface within the working time to release any entrapped air.

Quartz aggregate may be broadcasted on to the wet surface when more antiskid is needed. Evenly distribute the matching solid color aggregate by hand, covering all areas to avoid bald spots (recommended for wet areas).

Allow a minimum 10 hours cure period at 68°F before foot traffic. As a second option, selected mineral aggregates can be broadcast on to the wet surface and sealed with a top coat to lock in the aggregate. (contact your TruCrete representative to determine topcoat options).

This application method requires a minimum 14 hour's cure period at 68°F before foot traffic, see **PC-SL curing schedule**.

CLEANING

Clean with a solvent base thinner to remove any residue from tools or any unwanted areas. Cured product may need to be mechanically removed. Clean hands/body with hot soapy water.



PC-SL™ Technical data Sheet

RESTRICTIONS

- Do not apply below 43°F or above 86°F / maximum relative humidity 85%.
- If any moisture is detectable according to ASTM D4263 Test Method (for Indicating Moisture in Concrete by the Polyethylene Sheet Method) where PC-SL cementitious thin screeds and coatings are to be installed, additional tests must be done to quantify the actual relative moisture content or vapor drive.
- Do not apply to porous surfaces where significant moisture vapor transmission (out-gassing) will occur during application.
- Do not apply to polymer modified cement mortars (PCC) that may expand when sealed with an impervious resin.
- Do not apply to water-soaked, glistening-wet concrete substrates.
- Do not apply to un-reinforced sand cement screeds, asphaltic or bitumen substrate, glazed tile or non-porous brick, tile and magnesite, copper, aluminum, soft wood, or urethane composition, elastomeric membranes, fiber reinforced polyester (FRP) composites.
- Do not apply to concrete if air or substrate temperature is within 5°F of dew point.
- Protect substrate during application from condensation from pipes or any overhead leaks.
- Do not apply to vertical or overhead surfaces.
- Do not featheredge.
- Do not mix PC-SL CEMENTITIOUS materials by hand; mechanical mix only.
- Do not apply to cracked or unsound substrates.
- Do not use on exterior, on-grade substrates; for interior use only.
- Do not apply to surfaces where moisture vapor can condense and freeze.
- Color uniformity cannot be completely guaranteed from batch to batch.
- Some light custom colors may produce noticeable shade variations between PC-SL CEMENTITIOUS systems (e.g. difference between floor and coving mortars). In order to achieve a uniform appearance, the use of top coats may be required.



PC-SL™ Technical data Sheet

Health and Safety

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.

Components A, B, and C 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.

Consult the material safety data sheet for further information

Disclaimer: The info herein is general to assist our customers in determining whether TruCrete Surfacings Systems® products are suitable for their specific applications. TruCrete Surfacings Systems® products are intended for sale to trained installers. We recommend that customers inspect and test our products before use to satisfy themselves as to the content and suitability for the applications they intend to use

TruCrete Surfacings Systems® products for. Nothing herein shall constitute any warranty expressed or implied, including any warranty of merchantability or fitness for a particular purpose, nor is any protection from any law or patent to be inferred. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for incidental or consequential damages.
