

# Perdüre SLE/SLE(T)

## technical data sheet

düraamen

engineered to perform

### DESCRIPTION

Perdüre SLE/SLE(T) is a self-leveling seamless flooring system consisting of pre-proportioned epoxy resin, hardener and selectively graded aggregates. It is applied in multiple coats to achieve the desired finish, smooth to textured surface profile. It protects concrete floors from chemical attack and industrial abuse, as well as restores damaged and spalled concrete floors.

Perdüre SLE/SLE(T) is typically applied to a thickness of 1/16" to 1/4" depending upon the existing substrate conditions and desired service life of the floors. It is resistant to wide range of chemicals including acids, solvents and fatty acids. The system is designed for ultimate cleanability, and for areas where dirt or dust cannot be tolerated.

An anti-microbial biocide additive is available which protects against growth of algae, bacteria, fungi, mold, mildew, yeast, etc. Perdüre SLE/SLE(T) can be installed with an integral cove base for areas requiring seamless wall to floor coatings. A waterproof crack-resistant system can be achieved using crack isolation and waterproofing membrane.

### TYPICAL USES

- Warehouses
- Pharmaceutical facilities
- Laboratories
- Clean Rooms
- Production / Assembly areas
- Traffic aisles
- Packaging & Storage areas
- Distilleries, Bottling plants

### ADVANTAGES

- Protects new concrete from abuse
- Rejuvenates worn surfaces, to a smooth finish
- Very high wear, impact and abrasion resistance
- Excellent resistance to broad range of chemicals
- 100% solids, low odor, Zero VOC
- Slip resistant surface

### CONDITIONS

- On or below grade installation must have an efficient vapor barrier under the slab. Special treatments are necessary where hydrostatic pressure or moisture vapor transmission may be present. Moisture vapor transmission in excess of 3.0lbs/1000ft<sup>2</sup>/24hr period may result in delamination, discoloration or improper curing.
- Substrate temperature must be a minimum of 55°F (Low temperature cure system available on request).
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials.
- All control and expansion joints in the substrate must be revealed with the appropriate divider strips in the topping.

### COMPOSITION

Perdüre SLE/SLE(T) is composed of 100% solids epoxy resin filled with a variety of graded quartz and silica fillers that can be modified to create the best design mix for ideal performance. A wide selection of finish coats is available to meet various exposure requirements.

### AVAILABILITY

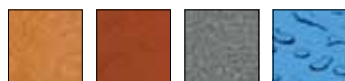
Perdüre SLE/SLE(T) is available throughout the United States and Canada. Contact Düraamen representative in your area for details.

### MAINTENANCE

After completing the application of Perdüre E02, the installer should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly. Perdüre E02 is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Waxing is optional. Long periods of heavy traffic may cause wear patterns necessitating application of a finish coat.

### COLOR SELECTION

Perdüre SLE/SLE(T) is available in Standard Colors. Custom colors are available subject to laboratory approval, minimum quantity, lead time for production, and increased cost.



düraamen engineered products, inc.

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## TECHNICAL SERVICE

Düraamen Engineered Products, Inc. provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. This consultation is highly recommended prior to specification.

## RESIN PERFORMACE PROPERIES

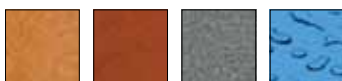
Compressive Strength, ASTM D 695	13,000psi
Ultimate Tensile Strength, ASTM D 638	4,200psi
Tensile Elongation, ASTM D638	6-8%
Flexural Modulus, ASTM D790	2.5 X 10 <sup>5</sup>
Flexural Strength, ASTM D 790	7,800psi
Hardness, ASTM D 2240	80-85 D

## SYSTEM PERFORMANCE PROPERTIES

Flammability, ASTM D-635	Self Extinguishing
Fungus & Bacteria Growth, MIL-F-52505	Will not support growth of fungus or bacteria when subjected to mildew and bacteria tests
Hardness, ASTM D-2240	80-84D
Bond Strength to Concrete, ACI 403	300psi (100% concrete failure)
Resistance to Elevated Temperature, MIL D 3134f	No slip or flow at required temperature of 158°F
Coefficient of Friction, ASTM D 2047	0.80-0.85
Water Absorption, ASTM D570	Nil
Thermal Shock Resistance, ASTM C 884	Passes
Abrasion Resistance, ASM C501	50mg
Impact Resistance, MIL D3134F	Withstands 16ft.lb without cracking, delamination or chipping
Compressive Strength, ASTM C579. 7 days	14,000psi
Tensile Strength, ASTM C307	2,400psi
Thermal coefficient of Expansion, ASTM C531	26 X 10 <sup>-6</sup>

## WARRANTY

Düraamen Engineered Products, Inc. warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of Düraamen. If any product fails to meet this warranty, the liability of Düraamen will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Düraamen within (1) one year of delivery of materials. Düraamen may in its discretion refund the price received by Düraamen in lieu of replacing the material. No customer, distributor or representative is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of Düraamen. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Düraamen reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. DÜRAAMEN'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND DÜRAAMEN SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY OTHER THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.



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