100% Solids Epoxy 100SE
Technical Data Sheet

PRODUCT DESCRIPTION

100SE epoxy coating is a two component, low odor, 100% solids epoxy designed especially for flooring applications subjected to moderate traffic and chemicals. 100SE epoxy coating is ideally suited for application on concrete. This coating is extremely durable, easily cleanable and exhibits good stain and chemical resistance.

100SE ADVANTAGES AND BENEFITS

- 100 % Solids
- VOC compliant
- ADA compliant (with anti-skid)
- Convenient 2:1 mix ratio
- Excellent adhesion
- Extraordinary chemical resistance
- Easy Maintenance
- Many color options available

LIMITATIONS

Not recommended for use over flexible substrates. It is best suited for application in temperatures between 60 deg F to 90 deg F. The substrate must be clean, sound and dry. To minimize pinholes and surface defects, a primer coat of water-based epoxy primer is recommended. Concrete shall be moisture cured for a minimum of 28 days and have a minimum of 14 days in accordance with ACI-308 prior to the application of coating pending moisture tests.

100SE TYPICAL USE AREAS

- Garages
- Airport hangers
- Hospitals
- Clean rooms
- Pharmaceutical plants and laboratories
- Chemical processing facilities and warehouses

SUBSTRATE REQUIREMENTS

Site must be free of dirt, waxes, curing agents, or other foreign agents and free from condensation or water contamination during application and cure. Shot blasting or scarifying is required. The substrate must be profiled and primed with water-based epoxy.

APPLICATION METHOD

100SE epoxy can be easily applied by mixing in the appropriate 2:1 ratio and spread with a squeegee at a rate of 100-150 ft2 per gallon and then back rolled with a 3/8 nap roller.

PACKAGING AND STORAGE

100SE epoxy is provided in pre-measured kits that include A and B liquids in either 1gl jugs for a 3 gl kit or 5 gl pails for a 15 gl kit. Kits should be stored in a clean, dry area in stable temperatures approximating 55 to 90 deg F.

APPLICATION

The A and B liquids should be added in the proper ratio to a bucket and mixed with a drill mixer for no less than two minutes. The mixture should be homogeneous and can be applied to the substrate by pouring out and spreading with a squeegee. The product is then back rolled to the appropriate coverage. The surface can be used as is or a topcoat can be applied having the desired properties for the final surface.

MOISTURE CONCERNS

Limits for moisture vapor transmission for epoxy systems are 3lbs/1000sqft/24 hours using the calcium chloride test, per ASTM F1869.

MAINTENANCE

Regular cleaning and maintenance will prolong the life of all polymer flooring systems and enhance their appearance. 100SE will respond well to washdowns, and a wide range of degreasing cleaners.

TECHNICAL DATA FOR 100SE EPOXY COATING

Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D-2240	70-80
Compressive Strength	ASTM C-579	10000 psi
Tensile Strength	ASTM D-638	3000 psi
Flexural Strength	ASTM D-790	4000 psi
Impact Resistance	ASTM D-3134	pass
Slip Resistance	ASTM D2407	pass 0.6
Abrasion Resistance	ASTM D4060	35 mg

INSTALLATION INFORMATION

Cure time @ 70F 35 mg	
Dry to touch	6-10 hrs
Return to Service	24-48 hrs
Mix Ratio (premeasured volume)	2:1 Resin: Hardener
Working time	25 min
Toxicity	Sensitized individuals do not install

100% Solids Epoxy 100SE
Technical Data Sheet

CHEMICAL RESISTANCE

100SE has excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic fluids, aromatic and aliphatic solvents. Some acids may discolor or bleach the surface.

Chemical Resistance Chart ASTM D 1308

Chemical	Result
Acetic Acid (10%)	Pass
DI Water	Pass
10% Sulfuric Acid	Swells - recovers
10% Hydrochloric Acid	Pass
15% Ammonium Hydroxide	Pass
10% Bleach	Pass
Betadine	Pass
Gasoline	Pass
50% Sodium Hydroxide	Pass
Methyl Ethyl Keytone	Pass
Xylene	Swells - recovers
Mineral Spirits	Pass

HEALTH AND SAFETY

Read carefully and follow Material Safety Data Sheets and application instructions for the 100SE flooring system prior to use. Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment and clothing to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDREN.

WARRANTY

Progressive Industrial Coatings warrants that for a period of one year its products will be free of manufacturing defects and will be in conformity with published specifications when stored, handled, mixed, and applied in accordance with Progressive Industrial Coatings' recommendations. If any product fails to meet this warranty, Progressive Industrial Coatings' liability will be limited to the replacement of any non-conforming material if notification is made to Progressive within the one-year period. To obtain replacement or refund for the value of the nonconforming materials, the customer must provide written notice containing details of the non-conforming performance. Progressive reserves the right to inspect the non-conforming material before replacement is made. Except for the expressed warranty stated here, there are no other warranties, expressed or implied, including without limitation, any implied warranty of merchant-ability or fitness for any other purpose. Progressive Industrial Coatings' obligation shall not extend beyond the obligations expressly undertaken above and Progressive shall have no liability or responsibility to the purchaser or any other third party for any loss, cost, expense, damage, or liability, weather direct or indirect, or for incidental or consequential damages.