



# EpoxyGuard F760S

## Solvent-Based Epoxy Protective Coating System for Concrete Structure, Floor, Wall, Wood Floor, Steel and Metal

### 1.0 Description

EpoxyGuard F760S is a two parts solvent based epoxy resin coating consisting of a pigmented base resin and a clear hardener component. F760S offers good priming protection for wood-made and cement based material, water pipe external and interior lining. Dust-proofing, anti-penetration, anti-corrosion and hardening effect to concrete. The product is applied by brush or lamb's wool roller to provide a decorative coating which is easily cleaned and chemically resistant. It is highly abrasive resistance, waterproofing and anti-penetration of oils and greases. High build and hiding power can be achieved in two coats giving 300 microns thickness of application. A non-slip finish is obtained when the first coating is broadcast with non-slip grains.

### 2.0 Technical Data

Cured Physical Properties	Test Method	Result	Liquid Physical Properties	Result
Compressive Strength	ASTM C579	11,000 psi	Specific gravity	1.20
Tensile Strength	ASTM C2370	6,000 psi	Volume solid	60%
Flexural Strength	ASTM D790	6,200 psi	Pot Life at 25°C	2 hours
Hardness, Shore D	ASTM D2240	80	Over coating at 25 °C	4-6 hours
Bond Strength	ASTM D4541	> 400 psi	Initial cure at 25 °C	16 hours
Indentation	Mil-D-3134F	No Indentation	Full cure at 25 °C	7 days
Abrasion Resistance (Taber Abrader CD 17 Wheel, 1000gm load, 1000 cycles)	ASTM D4060	100mg	Foot Traffic	24 hours
Water Resistance	ASTM D1308	No Effect	Minimum Dry Film Thickness required	150 microns
Salt Water Resistance	ASTM B117	No Effect		
Boiling Water Resistance	ASTM D2571	No Effect		
Water Penetration Test (0.5 Bar Pressure)	DIN1048	< 10mm		
Spread of Fire Test	BS 476 Part 7 :1997	Class 1		
	BS6853 Appendix B Clause B9.3	No Flame		
	BS6853 Appendix D	No Spread of Smoke		
US FDA Food Contact Article Test	In accordance with 21 CFR 175.300	Pass		

### 3.0 Coating System Surface Preparation and Coverage Estimation

This is estimation on concrete surface only and is vary according to surface condition.

#### Preparatory work for cement base surface

Surfaces must be clean, dry and free of all loose dirt, oil, wax sealers, curing compounds and other foreign matter. New concrete must be thoroughly set and dry; an age of 14 days is the minimum but preferably 28 days or more and with moisture contents less than 7% before coating. .

Cracks and defectives on concrete surface must be repaired by appropriate cementitious material; metal surface shall be treated with grit blasting. Please refer to others concrete repairing material of LABOND range or consult the technical offices of Master Proofer Company Ltd.

### 3.1 Enhanced System

**Enhanced System : A Dust-Proofing and Anti-abrasion Surface with good chemical resistance for wood and concrete.**

It is suitable for application at the site of internal dairies, kitchens, computer rooms, production area, showrooms, breweries, and factory floor. For external, it is suitable for car park decks, tunnel walls, cellars, concrete structures, airport, hangar floors, pavements, walkways, pools desk.

		Material Quantity	Minimum Curing time for Applying next coat at 25°C
First Coat (Priming)	Multiprime P940	0.2 kg/M <sup>2</sup>	4 Hours
Second Coat	EpoxyGuard F760S	0.11 – 0.144 liter/M <sup>2</sup>	5 – 8 Hours
Third Coat (Finish)	EpoxyGuard F760S	0.10 - 0.125 liter/M <sup>2</sup>	24 Hours for foot traffic 72 Hours for Car Traffic

### 3.2 Anti-Slip System

**Anti-Slip System : A Anti-abrasion and Non-Slipping Wood or Concrete Surface with good chemical resistance.**  
It is similar to Enhanced System and tailor-made for those areas where non-slipping condition is required.

		Material Quantity	Minimum Curing time for Applying next coat at 25°C
First Coat (Priming)	EpoxyGuard F760W or Multiprime P940 (with non-slip sand 0.25mm)	0.33 – 0.40L/M <sup>2</sup>	16 Hours
Second Coat	EpoxyGuard F760S	0.27 – 0.30L/M <sup>2</sup>	5 – 8 Hours
Third Coat(Finish)	EpoxyGuard F760S	0.25 – 0.27L/M <sup>2</sup>	24 Hours for foot traffic 72 Hours for Car Traffic

### 3.3 Protective System

**Protective System for Steel bar and other metal base structure . .**

**Preparation :** New Priming coat may not be required if it is old surfaces which have been suitably prepared with appropriate primer. Remove grease, oil , paint coatings and any contaminates. For new non-galvanized surface, it should have been blast cleaned to a minimum standard of cleanliness SA21/2 as defined in BS 7079 Part 1: 1989 to a surface profile not exceeding 100 microns. For non-galvanized surface, use primer scale as follow : Zinc Phosphate(Alkyd) – DFT: 75 microns ; 2-Pack Epoxy Blast Primer – DFT: 25 microns ; 2-Epoxy Zinc Rich Primer- DFT:75 microns 2-Pack Epoxy Metal Primer : 38 microns ; Red Oxide(QD Alkyd)- DFT: 25 microns ; EpoxyGuard F760W – DFT: 150 microns or other types please refer technical office of Master Proofer. For galvanized surfaces, please use Labond Epoxyprime P936 or 2-Pack Etch Primer : DP37 or 1- Pack Etch Primer : DP37

First Coat	EpoxyPrime P936	0.12 – 0.14liter/m	4 – 6 Hours
Second Coat	EpoxyGuard F760S	0.10 – 0.125liter/M <sup>2</sup>	5 - 8 Hours
Third Coat(Finish)	EpoxyGuard F760S	0.10 - 0.125liter/M <sup>2</sup>	24 Hours

### 4.0 Mixing and Application Methods

The Epoxy Floor Coating base component is supplied in a drum which is large enough to receive the hardener component and act as the mixing vessel. Pour all of the hardener component into the base resin container and mix using a slow speed electric stirrer. Mixing should be continued for two minutes to achieve a uniform consistency and color.

Applications must be sprayed or bushed according to the schedule as outlined in the table of 3.1 to 3.3.

### 5.0 Chemicals Resistance

	Enhanced System	Anti-Slip System	Protective System
Hydrochloric Acid 35%	Resistance	Resistance	Resistance
Nitric Acid 25%	Resistance	Resistance	Resistance
Sulphuric Acid 25%	Resistance	Resistance	Resistance
Acetic Acid 20%	Resistance	Resistance	Resistance
Lactic Acid 20%	Resistance	Resistance	Resistance
Citric Acid 20%	Resistance	Resistance	Resistance
4 Hydrochloric acid 35%	Resistance	Resistance	Resistance
Sodium Hydroxide 50%	Resistance	Resistance	Resistance
Ammonia 10%	Resistance	Resistance	Resistance
Bleach 5%	Resistance	Resistance	Resistance
Butanol	Resistance	Resistance	Resistance
Sugar	Resistance	Resistance	Resistance
Acetone	Resistance to occasional contact	Resistance to occasional contact	Resistance
Xylene	Resistance	Resistance	Resistance
	Enhanced System	Anti-Slip System	Anti-Slip System
Lubricating Oil	Resistance	Resistance	Resistance
Petrol	Resistance	Resistance	Resistance
Skydrol	Resistance to occasional contact	Resistance to occasional contact	Resistance

### 6.0 Color Range

Refer the choice of colour as below and please note the actual colour may be vary from independent batch of product is just for preliminary reference only and please judge favorable color by actual mock up sample if necessary.

### 7.0 Packing and Storage

5kg / 18kg / Set

(\*Packing standard may vary for shipment purpose)