



EpoxyGuard F760W

Epoxy Protective Coating System for Concrete Structure, Stones/Tile Floor, Wall, Wood Floor, Steel and Metal

1.0 Description

EpoxyGuard F760W is a high mechanical strength epoxy resin coating consisting of a pigmented base resin and a clear hardener component. F760W offers good priming protection for stone, wood-made and wide range of construction material, it constructs a slab or façade with Dust-proofing, Anti-Penetration, Anti-corrosion and hardening effect. The product is applied by brush or lambs 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. The two parts product is pre-packaged ready for onsite mixing without any risk from solvent vapors. 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	9,000 psi	Specific gravity	1.30
Tensile Strength	ASTM C2370	7,000 psi	Volume solid	43%
Flexural Strength	ASTM D790	7,200 psi	Pot Life at 25°C	1 hours
Hardness, Shore D	ASTM D2240	70	Over coating at 25 °C	6 - 8 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	110mg	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	< 20mm		
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 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 Flooring and Concrete Protective System

Standing System : A Dust-Proofing and Hardening Surface with general chemical resistance.

It is suitable for application at the site of internal food preparation area, Food Factory, Laboratory clean room, Childcare Centers, Wood Work etc. It also suitable for external area where a Matt finish is required on mechanical room, concrete structures against de-icing salts.

		Material Quantity	Minimum Curing time for Applying next coat at 25°C
First Coat(Priming)	EpoxyGuard F760W	0.125 – 0.15L/M ²	6 - 8 Hours
Second Coat(Finish)	EpoxyGuard F760W	0.125 – 0.15L/M ²	24 Hours for foot traffic



EpoxyGuard F760W

Solvent Free Epoxy Coating System



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 (with non-slip sand 0.25mm)	0.33 – 0.40L/M ²	6 - 8 Hours
Second Coat	EpoxyGuard F760S / * F760W	0.27 – 0.30L/M ²	5 - 8 Hours
Third Coat(Finish)	EpoxyGuard F760S / * F760W	0..25 - 0.27L/M ²	24 Hours for Foot Traffic 72 Hours for Car Traffic

*** For Hygiene surface and general store room**

4.0 Application

4.1 Mixing

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 colour.

4.2 Methods

Applications must be sprayed or brushed according to the schedule as outlined in the table of 3.0 to 3.2.

5.0 Chemicals Resistance

	Standing System	Enhanced System	Anti-Slip System
Hydrochloride Acid 50%	Resistance to occasional contact	Resistance	Resistance
Nitric Acid 25%	Resistance to occasional contact	Resistance	Resistance
Sulphuric Acid 25%	Resistance to occasional contact	Resistance	Resistance
Acetic Acid 10%	Resistance to occasional contact	Resistance	Resistance
Lactic Acid 10%	Resistance to occasional contact	Resistance	Resistance
Citric Acid 10%	Resistance to occasional contact	Resistance	Resistance
	Standing System	Enhanced System	Anti-Slip System
Sodium Hydroxide 50%	Resistance	Resistance	Resistance
Ammonia 10%	Resistance	Resistance	Resistance
Bleach 5%	--	Resistance	Resistance
Butanol	Resistance	Resistance	Resistance
Sugar	Resistance	Resistance	Resistance
Acetone	Limited Resistance	Resistance to occasional contact	Resistance to occasional contact
Xylene	Resistance	Resistance	Resistance
Lubricating Oil	Resistance	Resistance	Resistance
Petrol	Limited Resistance	Resistance	Resistance
Skydrol	Resistance to occasional contact	Resistance to occasional contact	Resistance to occasional contact

Remark : The above information is given to best of our knowledge from repeated experiments in the laboratory. “Resistance to occasional contact” means that for a short time contact with those chemicals and they are removed immediately; the system can provide protection to the floor; time of contact is the key factor of the degree of resistance to those chemicals.

6.0 Colour Range

Refer the choice of colour as below and please note the actual colour may be varied from independent batch of production.

This is just for preliminary reference only and please judge favorable colour by actual mock up sample if necessary.

7.0 Packaging and Storage

5 Liter /Set, unopened packing offers Shelf months. Bigger size of packing can be requested



EpoxyGuard F760W

高效能油性環氧樹脂保護塗層系統 (三合土、牆面、木面、金屬及不銹鋼面專用)

1.0 簡介

EpoxyGuard F760W 是高抗磨環氧樹脂塗料，它提供木地板及水泥石屎面保護層作用。F760W 適合室內美化，有防塵和抗菌作用。而處理過的地面，具備容易清洗、抗磨、抗化學侵蝕、防水、抗油污功能。F760W 塗料是半光面、高抗磨、抗化、多色彩塗料，適合停車場、貨倉等工業活動密集等場地。

F760W 塗料厚度及遮蓋力，需塗上兩遍才可達至最少 300 微分厚度。在地台防滑系統上，它可配合立康 A950 及 A951 高抗磨粒子作抗滑面層應用。

2.0 技術資料

F760W 固化後特性	測試標準	結果	F760W 液態下特性	結果
受壓度	ASTM C579	9,000 psi	物質比重	1.30
拉伸強度	ASTM C2370	7,000 psi	固化體量	43%
抗彎強度	ASTM D790	7,200 psi	混合後，施工時間(25°C 溫度下)	1 小時
硬度 Shore D	ASTM D2240	70	第二遍塗層(25°C 溫度下)	6-8 小時
黏合力升度	ASTM D4541	> 400 psi	初步凝固(25°C 溫度下)	16 小時
面層不平均	Mil-D-3134F	無	完全凝固(25°C 溫度下)	7 日
耐磨察度 (磨光機 CD 17 轉輪, 1000 克重, 1000 循環轉)	ASTM D4060	110 克(磨掉)	適合行人	24 小時
抗水能力	ASTM D1308	無滲水	最少塗層厚度	150 微分
抗鹽水能力	ASTM B117	無影響		
抗熱水能力	ASTM D2571	無影響		
抗水壓能力測試(0.5 巴水壓)	DIN1048	< 20 毫米		
防火蔓延測試	BS 476 Part 7 :1997	1 級		
	BS6853 Appendix B Clause B9.3	無火		
	BS6853 Appendix D	無煙漫延		
US FDA Food Contact Article Test	In accordance with 21 CFR 175.300	合格		

3.0 塗層方式，介面處理及用量估計

以下只供初步估計，最終數量視乎基面狀況，會有差異。

準備工作

水泥基面

必須無塵、乾面、無油脂物、汽油等阻礙塗料與基面黏合的任何物質。新做上水泥層應超過 14 天或以上凝固時間，內含水份比例不超過 7%。如有裂縫，凹凸面應盡量處理完善。

金屬面

必須做好磨層及防銹處理(參考萬寶基面處理指引表)

3.1 地面及石屎保護系統

常規系統: 抗塵及硬化地面

此個系統適合室內外需要衛生，整潔的位置如食物處理工場、幼兒園、實驗室、行人路面、木地台及木器。此系統亦適合需要戶外應用，保護石屎結構面層，效果為啞光面及無粉化現象。

		用量 (升)	需要凝固時間
第一層	EpoxyGuard F760W	0.125 – 0.15L/m ²	6 - 8 小時
第二層	EpoxyGuard F760W	0.125 – 0.15L/m ²	24 小時(行人應用)



3.2 抗滑、抗磨系統: 高抗磨、抗滑溜、抗化效果

此系統特別為要求抗滑地點使用，如車場、行人路、遊樂場、物流中心、機械房、工廠及停車場等。			
		用量 (升)	需要凝固時間
第一層	*P940 or F760W + A950 或 A951 (0.25mm)	0.33 – 0.40L/m ²	16 小時
第二層	EpoxyGuard F760S / *F760W	0.27 – 0.30L/ m ²	5 - 8 小時
第三層	EpoxyGuard F760S / *F760W	0.25 – 0.27L/ m ²	24 小時(行人應用); 72 小時(車、機械、鏟車應用)
*F760W-自流性大，材料用量視乎其粒子大小及基面狀態，請另行與立康代表了解其用量計算方法。 凝固時間會根據施工當時天氣及溫度而有所差別。			

****供一般倉庫及衛生場地用途**

4.0 施工方法

F760W 系統可用油輾、油掃或以噴塗方法施工。

5.0 可抗化學品表

酸類	效果	鹼類	效果	油脂類	效果	鹽類	效果	其它	效果
煤焦油	良好	氫氧化鈉	良好	燐油	良好	氯化鋁	良好	油	良好
甲酚	良好	氫氧化鉀	良好	汽油	良好	氯化鋇	良好	海水	良好
苦味酸	良好	氫氧化銨	良好	礦物油	良好	氯化鈣	良好	焦油	良好
硼酸	良好	肥皂溶液	良好	植物油	良好	氯化鎂	良好	糖水	良好
酚醇	良好			椰油	一般	氯化鈉	良好		
乙酸 (10%)	好			魚油	良好	氯化銨	良好		
丁酸 (10%)	好					硝化銨	良好		
丙酸 (10%)	好					硫化鎂	良好		
酒精 (10%)	好								
乳醇 (10%)	好								

6.0 顏色 -

請參考萬寶建築化工顏色表。如面積較大，客應要求實版在現場進行小面積模擬樣版。

環氧樹脂的色態在不同溫度及空氣濕度下會有明顯之差異，進行大面積施工時應有計劃地分倉進行，每一倉以一次性同時施工才可達至更理想效果。

7.0 包裝/儲存

5 升/組(分 A 部及 B 部) 或要求特殊大包裝。