



FLG90 SILICATE HARD FLOOR COATING

2-PART INORGANIC THIN HARD WEARING COATING

USES

1. Thin hard coating suitable for industrial floors. e.g. warehouses, airports, shopping centers, underground parking lots, etc.
2. Anti-slip floor coating when added with ceramic chips. Suitable for decks, carparks, driveways, stairs, walkways, auto repair shops, etc.

FEATURES

1. Good fire-retarding property
2. Good anti-stain protection; due to its high hardness (4H), treated surfaces remain significantly clean even after heavy usage. (T/N: Epoxy's hardness = 3H)
3. Able to bond to multiple surfaces including concrete, tile, and some old epoxy surfaces. (Test bonding before use.)
4. Anti-slip, anti-dust, oil resistant, chemical and low VOC emission
5. Easy application, fast-drying, odor-free and environmentally friendly

APPLICATION METHOD

SURFACE PREPARATION

1. Ensure the substrate is completely dry, clean and contaminant-free.
2. Ensure that the moisture content of the substrate is below 8%.

A: FOR TRANSPARENT FINISHES

1. Apply 1 layer of FLG 90 at 0.1 kg / m². Leave it to dry for 4 hours.
2. Apply 1 more layer of FLG 90 to ensure full penetration.

B : FOR GREY COLOUR FINISHES

1. Apply 1st layer of FLG 90 at 0.1kg / m² on the preparation surface.
2. After four hours , apply 2nd layer of FLG 90 at 0.1 kg / m² on the 1st layer.
3. Apply 3rd layer for clear color to achieve gloss finish.

Mix Ratio:

For CLEAR coating Part A : Part B = 3.50 : 1

For GREY Color Part A : Part B Grey = 1.94 : 1

C : FOR ANTI-SLIP FINISHES

1. Apply 1 layer of FLG90. Leave it to dry for 4 hours. Then apply a layer of FLG with anti-slip aggregate.
2. Allow it to dry for 4 hours. Then apply a layer of FLG90 as a top coat.

Mix Ratio: FLG 90 + Anti-slip aggregate (ceramic ball or quartz sand) = 100 + 5

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TECHNICAL DATA

Appearance:	Transparent liquid; can add color pigment
Specific gravity:	10.5
Solid content:	60 - 65%
Viscosity:	12 cps (25°C)
Moh's Hardness:	< 3.0
Adhesion Strength:	4.13 N / mm ² (ASTM D4151)
Abrasion Resistance:	1585 mg wt loss (1000 cycles) (ASTM 4060)
Impact Resistance:	27.5 kg-cm @121.7 μm
Dry Film Thickness:	121 μm
Coverage:	6.7 m ² / coat or 3.30 m ² / 2 coats 0.1 - 0.15 kg / m ² / coat For clear coating, 1 coat is sufficient. For color coating, 2 coats are needed.

Dry time	10°C	20°C	30°C
Finger touch	6 hours	4 hours	2.5 hours
Harden / Dry	12 hours	8 hours	6 hours
Fully cured	7 days	5 days	3 days

REMARKS

1. Product should be used within 45 mins after mixing.
2. Contains small amounts of alcohol which will float to the top in the can. Please stir before use. Use alcohol or thinner to clean tools.
3. Flammable product: smoking, open flames and cellphones are prohibited within the vicinity.

PACKING:

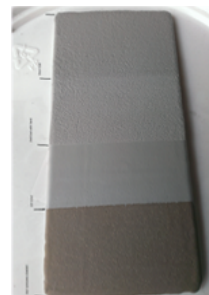
CLEAR	A = 3.5 kg	B = 1.0 kg
GREY	A = 3.3 kg	B = 1.7 kg



Fire-retarding -
Does not emit smoke.



High hardness keeps the
surface clean.



Anti-slip and anti-squeak

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MIXING CALCULATION TABLES

FLG 90 CLEAR				
Mix Ratio A : B = 3.50 : 1				
Set in kg	Part A in kg	Part B in kg	Average coverage in m ²	No of Coats
4.5	3.5	1	40-50 m ²	Per coat for smooth surface
4	3.11	0.89	30-40 m ²	Per coat for smooth surface
3	2.33	0.67	20-30 m ²	Per coat for smooth surface
2	1.56	0.44	10-20 m ²	Per coat for smooth surface
1	0.78	0.22	5-10 m ²	Per coat for smooth surface
0.5	0.39	0.11	0-5 m ²	Per coat for smooth surface

FLG 90 GREY COLOUR				
Mix Ratio A : B = 1.94 : 1				
Set in kg	Part A in kg	Part B in kg	Average coverage in m ²	No of Coats
5	3.3	1.7	40-50 m ²	Per coat for smooth surface
4	2.64	1.36	30-40 m ²	Per coat for smooth surface
3	1.98	1.02	20-30 m ²	Per coat for smooth surface
2	1.32	0.68	10-20 m ²	Per coat for smooth surface
1	0.66	0.34	5-10 m ²	Per coat for smooth surface
0.5	0.33	0.17	0-5 m ²	Per coat for smooth surface

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JOB REFERENCES



Vivocity
Black colour on cement



August 2004
Liat Towers Rooftop Carpark

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October 2013
Kaya Factory@ Food AXIS Senoko



Before application



After application of grey FLG90



After application of blue FLG90



After application of clear FLG90

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F 1501 TURF GREEN (F1002) (*370C)	F 1602 FRENCH CLAY F1008 (*7413C)	F 1701 BRICK RED F1016 (*181C)
		
F 1503 MISTY GREEN F1004 (*7489C)	F 1707 CHOCOLATE F1012 (*4975C)	F 1702 CHILLI RED F1017 (*187C)
		
F 1402 MISTY GREY F1005 (*COOL GRAY 8C)	F1705 BROWN F1013 (*4705C)	F 1704 COTTAGE RED F1019 (*7427C)
		
F 1403 ZINC GREY F1006 (*COOL GRAY 9C)	F 1201 NAVY BLUE F1014 (*7462 C)	F 1604 GERMAN CLAY F1020 (*7522C)
		
F 1404 LEAD GREY F1007 (*COOL GRAY 10C)	F 1202 SKY BLUE F1015 (*637 C)	F 1803 LEMON YELLOW F1023
		
F 1011 BLACK		

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