Floropoxy system 4805 SL

Product Description:
Floropoxy 4805 SL is a durable, three component, silica flour filled, self-levelling epoxy. This resinous, high-build system provides an economical way of resurfacing a slightly imperfect slab. Silica flour is sold separately.

Typical Uses, Applications:
Ideally suited for commercial, industrial and institutional applications, such as:

- Manufacturing plants and warehouses
- Pharmaceutical installations
- Aviation facilities
- Hotels, restaurants & public areas
- Education establishments

Product Advantages:
- Tolerates loading of silica flour without loss of self-levelling properties
- Clear or pigmented glossy finish
- Self Levelling epoxy system restores worn, pitted or deteriorated concrete to a smooth, highly dense and lustrous surface
- A variety of colours can be achieved with the addition of Florock 100% Solids Colourants

Packaging - **Standard kit size**
Each unit of Floropoxy 4805SL consists of:
1 x 11.35 ltr Part A Binder in black bucket
1 x 3.79 ltr Part B Activator in white bucket
Mini kit size
Each unit of Floropoxy 4805 SL consists of:
1 x 2.85 ltr Part A Binder in white bucket
1 x 0.95 ltr Part B Activator in white bucket

Part C – Florock Silica Flour:
25 kg bags

Storage: All containers should be stored at 5° C to 35° C and be kept tightly sealed and out of direct sunlight.

Cured Physical Properties		
Property	**Test Method**	**Results**
Compressive Strength	ASTM C579	77 N/mm²
Tensile Strength	ASTM C2370	50 N/mm²
Flexural Strength	ASTM D790	86 N/mm²
Indention	MIL- D-3134F	No Indention
Shore Hardness	ASTM D2240	Shore A - 100
		Shore D - 80
Water Absorption	ASTM C413	0.2%
Adhesion Bond Strength (concrete failure)	ASTM D454	>3 N/mm²
Abrasion Resistance, CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	105 mg loss unfilled 75 mg loss filled
Water Resistance Fed Tst Std. #141,Method 6011	ASTM D117	No Effect
Boiling Water Resistance (1 hour)	ASTM D2571	No Effect
Impact Resistance	ASTM D3134	> 160 in./lb.

Note: Floropoxy should not be applied when floor temperature is above 32° C or below 13° C, or when within 3° C of the dew point.

Coverage:

- 1.25m² /ltr at a thickness of 0.75mm
- 1.0m² /ltr at a thickness of 1.0mm
- 0.75m² /ltr at a thickness of 1.25mm

Surface Preparation:
New concrete must have a 28 day cure, and preferably a broom swept finish, prior to coating. In the case of older concrete flooring, remove all surface oils, paint, dust and debris. Prior to coating, make sure the surface is clean, passes the Moisture Vapour Transmission (MVT) test and the water drop test and that all surface defects have been repaired. Refer to the Florock "Preparation of Concrete" datasheet for more information on preparation and MVT before proceeding.

Note: Floropoxy should not be applied when floor temperature is above 32° C or below 13° C, or when within 3° C of the dew point.

Primer Application:
Floropoxy system 4700 epoxy primer
In a clean, dry container, blend 3 parts by volume of Resin Part A with 1 part by volume of Activator Part B. Mix thoroughly for 3-5 minutes, using a low speed mechanical mixer. Transfer the mixture from the batch container to a transport container. Remix and pour entire mix from the transport container onto floor immediately. Retaining mixture in the bucket will shorten the pot life. Using a flat or 3mm notched squeegee, apply at 2m²/ltr to achieve a dry film thickness of 400 microns (0.4mm). Backroll with a 10mm nap roller.

Note: The cure time will vary with conditions. Allow a minimum of 4 hours and a maximum of 24 hours before next step.

For Floropoxy system 4805 SL application, mix as follows:

1. Using a suitable batch pail, blend resin part A with part B activator for 2-3 minutes using a jiffy type blender. This equates to a mix ratio of 3:1 by volume.

2. While continuing to mix, slowly pour in Florock SL powder and continue mixing. As the volume settles, add more SL powder. When finished, 9kgs of SL powder will have been mixed into a standard kit of blended resin or 2.25kg for a mini kit.

A variety of colours can be achieved with the addition of 1 x 0.95ltr for a standard kit or 1 x 225ml for a mini kit of 100% colourant .

3. Transfer contents to transport container and remix. Pour entire mix onto floor immediately. Retaining mixture in the bucket will shorten pot life.

Chemical Resistance	
Reagent	**Spot Test Results**
Sulfuric Acid 10%	1
Sulfuric Acid 25%	1
Citric Acid 10%	1
Lactic Acid 10%	1
Acetone Acid 10%	1
Sugar Solution 10%	1
Isopropyl Alcohol	5
Acetone	5
Ammonia	1
Brake Fluid	4
Sodium Chloride 20%	1
MEK	5
JP 4 Jet Fuel	2
1-1-1 Trichloroethane	1
Methylene Chloride	5
Mineral Spirits	1
MIBK	5
Skydrol	5
Tincture of Iodine	1,S
Water	1

Rating Scale: Spot Test, ASTM D1308
Pencil Hardness Test, ASTM D3363

1 - Excellent. No change in pencil hardness
2 - Very Good. 1 Unit change in pencil hardness
3 - Good. 2 Units change in pencil hardness
4 - Fair. 3 Units change in pencil hardness
5 - Poor. 4 or more Units change in pencil hardness
S - Stains

4. Using a notched squeegee or wire guide applicator, spread 4805 SL to desired thickness.

Floropoxy system 4805 SL

The spread rates for the Floropoxy 4805 SL system are as follows:

- 1.25m² /ltr at a thickness of 0.75mm
- 1.0m² /ltr at a thickness of 1.0mm
- 0.75m² /ltr at a thickness of 1.25mm

5. Wearing spiked shoes, backroll with spike roller.

Note: For optional top coat(s), after floor is fully cured, apply Florothane CR250 or Florothane MC Ultra 100 being mindful of recoat windows and cure times.

Instructions for Use over Existing Coatings:

Examine the existing coating to ensure that it is well bonded to the concrete. Any loose coating must be completely removed.

Edges should be sanded to a feathered edge. Clean the entire floor thoroughly with detergent cleaner. The surface must be free of all dirt, oils, or other contaminants. After the floor has completely dried, sand the existing coating until a powdery residue is evident and all gloss is removed. Sweep or vacuum clean, finishing with solvent free wipes to ensure good adhesion of the new System.

Note: When coating over existing coatings, a test patch is recommended to evaluate compatibility.

Liquid Physical Properties			
Property	M0-091 Pt A	U0-161 Pt B	1-44 Powder
Flash Point	>93 C	>93 C	>93 C
Weight Per litre	1.14 kg	0.99 kg	N/A
N.V.W.	100%	100%	N/A
N.V.V.	100%	100%	N/A

Blended Components	Floropoxy 4805 SL
Blended Ratio by Volume	3:1
Blended Solids	100%
VOC, Blended	0
Blended Viscosity, cps	1,000
Pot Life (resin only)	24 min.
Pot Life (with 1-44 SL powder)	24 min.
Fully Cured *, Foot Traffic	12 hours

Please read material safety data before using product.

DISCLAIMER:
All statements and recommendations above are based on experience we believe to be reliable. The use or application of these products being beyond the control of the
Seller or Manufacturer, neither Seller nor Manufacturer make any warranty, expressed of implied, as to results or hazard from its use. The suitability, risk and liability of a product for an intended use shall be solely up to the User.