

Floropoxy System 4805

Self-Levelling, Clear or Pigmentable Epoxy mid-coat/topcoat

Product Description:

Floropoxy 4805 is a durable, 100% solids, 2 component epoxy gloss mid-coat/topcoat. It exhibits excellent self-levelling properties and is crystal clear and resistant to yellowing. Floropoxy system 4805 is ideal as the final coat because it makes floors easier to clean and prevents concrete dusting.

Typical Uses, Applications:

Ideally suited for mid-coat and topcoat use in commercial, industrial and light institutional applications, such as:

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

Product Advantages:

- Excellent durability and resilience
- Clear or pigmentable glossy finish which is resistant to yellowing
- No amine sweat or haze
- Excellent self-levelling properties
- A variety of colours can be achieved with the addition of Florock 100% Solids Colourants

Packaging - Standard kit size

Each unit of Floropoxy 4805 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 consists of:
1 x 2.85 ltr Part A Binder in white bucket
1 x 0.95 ltr Part B Activator in white bucket

Cured Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C579	77 N/mm ²
Tensile Strength	ASTM C2370	50,332 kPa
Fluxural Strength	ASTM D790	53,572 kPa
Indentation	MIL-D-3134F	No Indentation
Hardness, Shore D	ASTM D2240	80
Percent Elongation	ASTM D2370	6%
Water Absorption	ASTM C413	0.2%
Bond Strength,	ASTM D454	>3 N/mm ²
Abrasion Resistance, Taber Abrader CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	105 mg loss
Water Resistance,	ASTM D1308	No Effect
Salt Water Resistance	ASTM B117	No Effect
Boiling Water Resistance (1 hour continuous exposure)	ASTM D2571	No Effect

Mix ratio 3:1 by volume

Storage: All containers should be stored between 16° C to 30° C in a dry area and be kept tightly sealed and out of direct sunlight.

Coverage:

Apply Floropoxy 4805 at 3.8m²/ltr @ 250µ dft or at 2.4m²/ltr @ 400µ dft

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.

Typical Application:

One coat of Floropoxy 4805 applied over Floropoxy 4700 Primer.

Note: For a field pigmentable project, the primer should be pigmented to the same colour as the top coat. For field tinting Floropoxy 4805, blend each standard kit with 1 x 0.95ltr unit or a mini kit with 1 x 225ml of Florock 100% Colourant.

Primer Application:

Once surface preparation is complete, apply Floropoxy 4700 primer to the concrete floor. In a clean, dry container, blend 3 parts by volume of Resin Part A with 1 part 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 squeegee, apply at desired thickness. 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.

Mid-coat/Top Coat Application:

When the primer has cured, and before 24 hours elapses, apply the Floropoxy 4805 mid-coat/top coat. 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 to 5 minutes using a low speed mechanical mixer. Transfer the mixture from the batch container to a transport container Remix and pour entire contents from transport container onto the

floor immediately. Using a flat or notched squeegee, apply at 3.8m²/ltr @ 250µ dft or at 2.4m²/ltr @ 400µ dft. Backroll with a 10mm nap roller.

Chemical Resistance	
Reagent	Spot Test Results
Sulfuric Acid 10%	1
Sulfuric Acid 25%	1
Nitric Acid 10%	1
Hydrochloric Acid 10%	1
Phosphoric Acid 10%	4
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
Toluene	5
Xylene	5
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 - Good. 1-2 units change in pencil hardness
- 3 - Fair. 3 units change in pencil hardness
- 4 - Poor. 4 or more units change in pencil hardness
- 5 - Stains

Floropoxy System 4805

Self-Levelling, Clear or Pigmentable Epoxy mid-coat/topcoat

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.

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 or 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.

Liquid Physical Properties			
Property	Test Method	M0-076 Component A	U0-144 Component B
Viscosity	ASTM D2196	6400 cps	45 cps
Flash Point	ASTM D3278	>93° C	>93° C
Weight Per Litre	ASTM D1475	1.10 kg	0.95 kg
N.V.W.	ASTM D2369	100%	100%
N.V.V.	ASTM D1259	100%	100%
Blended Components			
Blended Ratio		3:1 by volume	
Blended Solids		100%	
Pot Life (6.8kg mass)*		24 minutes	
Curing Time, 70° F @ 50% RH			
Set to Touch		8 hours	
Minimum Recoat		12 - 14 hours	
Maximum Recoat		48 hours	
Foot Traffic		12 hours	
Floor & Air Temp. Limitation**		13° C - 32° C	
Blended Viscosity, ASTM D2196		1000 cps	
Recommended Clean Up Solvent		S 41Florobase solvent	
VOC, ASTM D3960		0	

*Pot life will be shorter with warmer slab and material temperatures

**Cooler temperatures require longer cure times. Film thickness affects cure times.