

FloroShop 3mm Epoxy Resin & Aluminium Oxide Slip Resistant Flooring

Product Description:

FloroShop is a 2-component tough, durable epoxy flooring system which provides excellent slip resistance in shop floor settings where slippage, abrasion and impact damage are concerns. FloroShop is easy to clean and maintain. It prevents concrete dusting and retains its colour and durability over time.

Typical Uses, Applications:

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

- Machine shops
- Storage areas
- Manufacturing facilities
- Food processing facilities

Product Advantages:

- Dense, non-porous surface that resists penetration
- Impact resistant
- Excellent slip resistance
- Highly economical shop floor solution

Packaging:

- Floropoxy 4700 Primer
2 - part A & B. 15.14 ltr pack when mixed
Mix ratio 3:1 by volume
- Floropoxy 4805 Epoxy Coating
2-part A & B. 15.14 ltr pack when mixed
Mix ratio 3:1 by volume
- Aluminium Oxide & Silica Aggregates
25 kg Bags
- 100% Solids Colourant
1 x 0.95 ltr

Cured Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C695	93 N/mm ²
Tensile Strength	ASTM C2370	55 N/mm ²
Flexural Strength	ASTM D790	29.5 N/mm ²
Flexural Module of Elasticity	ASTM C580	2.0 x 10E6 PSI
Hardness, Shore D	ASTM D2240	85-90
Impact Resistance	ASTM D4541	>1,800 mm kg
Water Absorption	ASTM C413	0.01%
Indentation	MIL-D-3134F	No Indentation
Flammability	ASTM D635	Self-Extinguishing
Linear Shrinkage	ASTM D2566	0.02%
Flame Spread	ASTM E84	Class A
Heat Resistance Limitation	Continuous Exposure	60°C
Coefficient of Friction Rough/Medium/Smooth	ASTM D2047	0.9/0.8/0.6
Bond Strength (concrete failure)	ASTM D454	>3 N/mm ²
Abrasion Resistance, Taber Abrader CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	60 mg max weight loss

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:

Primer:

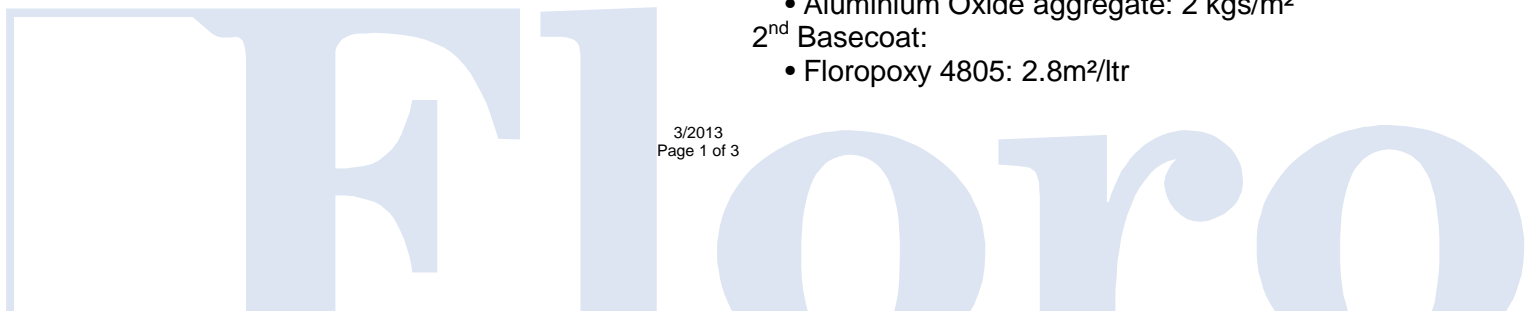
- Floropoxy 4700: 3.8m²/ltr

1st Basecoat:

- Floropoxy 4805: 2.8m²/ltr
- Aluminium Oxide aggregate: 2 kgs/m²

2nd Basecoat:

- Floropoxy 4805: 2.8m²/ltr



- Aluminium Oxide & Silica Aggregates:
2 kgs/m²

Grout Coat:

- Floropoxy 4805: 2.8m²/ltr

Optional Finish Coat:

- Florothane CR250 or MC Ultra 100. See individual technical data for details.

Note: Instead of using Floropoxy 4805 Clear for the grout coat you may substitute 2-3 finish coats of Florothane MC or CR.

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.

3mm Double Broadcast FloroShop Application – Applied over smooth bare concrete

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:

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 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.

2. Pigmented System 4805 Basecoat Application:

In a clean, dry container, blend 3 parts by volume of clear or pigmented resin Part A with 1 part by volume of activator Part B. Using a low speed mechanical mixer blend well for 3-5 minutes. When tinting Floropoxy 4805 Clear, add Florock Epoxy Colourant at the rate of 1 x 0.95 ltr colourant to a 15.14 ltr batch of clear epoxy. Transfer mixture from batch container to transport container and remix. Immediately pour entire mixture onto floor. Using a 3mm V-notched squeegee spread Floropoxy 4805 at 2.8m²/ltr. Use a 10mm roller to back-roll the coating. Allow System 4805 to completely self-level before broadcasting silica aggregate. Then, wearing spiked shoes, broadcast 40 to 100 mesh silica aggregate into still wet basecoat. Continue broadcasting aggregate until all liquid is filled and there are no apparent wet spots. Allow sufficient cure time until material is cured hard enough to walk on without leaving an impression in the coating. Sweep or blow off excess aggregate. Sand or screen any high areas until smooth. Vacuum clean.

3. Repeat step 2 substituting the silica aggregate broadcast for Aluminium Oxide 40-100 mesh.

4. Pigmented System 4805 Grout Coat: A grout coat of Floropoxy 4805 shall be applied within an 8-24 hour period after the basecoat application. Apply in the same manner as in step 2, applying at 2.8m²/ltr.

5. Finish Coat: Florothane MC Ultra 100 or Florothane CR 250 may be used as a finish coat over Floropoxy 4805. In this case one coat is sufficient. Apply one coat of Florothane Topcoat.

Application over Existing Coating: Examine the existing coating to ensure that it is well-bonded to the concrete. Any loose coating must be completely removed. Edges where loose coating has been removed 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. Once floor has completely

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dried, sand the existing coating until a powdery residue is evident and all gloss is removed. Sweep or vacuum clean and wipe with solvent free wipes to ensure good adhesion of the new system. Any bare concrete should be mechanically prepared and primed with Floropoxy 4700. Follow steps 1 - 5.

Please read material safety data before using product.

Disclaimer:

All statements and recommendations are based on experience we believe to be reliable. The use or the 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.