

Florothane MC 100

Aliphatic Moisture Curing
Urethane Gloss

Product Description:

FlorothaneMC Ultra 100 is an economical, light stable, high gloss durable traffic system. It provides outstanding gloss retention and superior hardness as well as exceptional abrasion resistance. It is resistant to many chemicals and solvents and it stops concrete dusting, providing a floor that is easy to maintain.

Typical Uses, Applications:

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

- Aircraft hangars
- Car & motorcycle dealerships
- Hotels & restaurants
- Retail & Leisure facilities
- Showrooms
- Education establishments
- Public buildings

Product Advantages:

- Resistant to Skydrol®, jet fuels and other vehicle maintenance fluids.
- High solids, low odour.
- Aliphatic (non-yellowing)
- A variety of colours can be achieved with the addition of Florock Universal Colourants.

Packaging:

17 litre pack size (when mixed)
Also available in 2.8 litre mini kits

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.

Cured Physical Properties – MC Ultra 100		
Abrasion Resistance, Taber Abrader CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	18.8 mg loss
Sward Hardness	ASTM D2240	40 – 50
Gloss, 60 Degree	ASTM E97	90+
Konig Hardness, 75 microns film		171.3
COF – James Friction Tester	ASTMD2047	0.60 – 0.65
Tensile Strength, PSI	ASTM 2370	65.5 N/mm ²
Tensile Elongation, %	ASTMD2370	6
Dry Film Thickness		75 microns

Coverage:

- Florothane MC Ultra 100
12m²/ltr @75 microns 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: Floropoxy4700 should not be applied when the 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 3.8m²/l 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. Topcoat Application:

For a pigmented coating, add 2 litres of Florock Universal colourant into the mixture of parts A & B. Mix parts A & B for 3 minutes using a Jiffy mixer blade with slow speed drill. Apply one coat only at 12m²/l @ 75 microns dft with a 10mm nap roller. It is important to take great care not to apply this coating above or below 12m²/l @ 75 microns dft. Excess material could result in blisters and insufficient material could result in an uneven appearance. Allow coating to cure for 24 hours. If slip resistant characteristics are required, broadcast 60 or 80 grit aluminium oxide aggregate into the wet primer or topcoat at the rate of 2-4 kgs per 100m².

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.

Chemical Resistance – Clear MC Ultra 100		
Reagent	1 Day	7 Days
Hydrochloric Acid 10%	E	E
Hydrochloric Acid 30%	E	E
Nitric Acid 10%	G	F
Phosphoric Acid 50%	E	G
Sulfuric Acid 37%	E	G
Acetic Acid 10%	E	E
Citric Acid 10%	E	E
Oleic Acid	E	E
Ammonia Hydroxide 10%	E	E
Ethylene Glycol (Antifreeze)	E	E
Isopropyl Alcohol	G	G
Methanol	G	F
D-Limonene	E	E
JP-4 Jet Fuel	E	E
Gasoline	E	E
Mineral Spirit	E	E
Xylene	E	E
Methylene Chloride	P	P
MEK	F	F
PMA	E	G
Ammonium Nitrate 20%	E	E
Brake Fluid	E	E
Bleach	E	E
Motor Oil	E	E
Skydrol ® 500B	E	E
Skydrol ® LD4	E	E
Sodium Chloride 20%	E	E
Tide Laundry Soap 1%	E	E
Trisodium Phosphate 10%	E	E

System cured 2 weeks prior to testing. Testing results are 1 day and 7 day exposures with 2 hr. recovery.

- E – Recommended for longer-term spills
- G – Recommended for shorter-term spills
- F – Recommended for intermittent spills which are cleaned up promptly.
- P – Not Recommended
- S - Stains

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.

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Maintenance: Sweep away dust and debris with a broom. Clean on a regular basis with a surfactant type mild detergent. Florock floors never need to be waxed.

Please read material safety data before using product.

DISCLAIMER:

All preceding statements and recommendations are based on experience we believe to be reliable. The end use or application of these products being beyond the control expressed of implied, as to results or hazard from its use. The suitable risk and liability of a product for unintended use shall be solely up to the user.

Liquid Physical Properties		
Property	Test Method	Ultra 100 R0-158/R0-159
Viscosity, A+B	ASTM D2196	450 cps
Flash Point, °C	ASTM D3278	85/85
Wt. Per ltr. A+B	ASTM D1475	1.10 kg
N.V.W., A+B	ASTM D2369	91%
VOC, grams/ltr	ASTM D3960	45 gpl
Blended Components		
Recommended Spread Rate		12m ² /ltr
Dry Film Thickness per Coat		75 microns
Floor and Air Temp. Limits*		13° C- 32° C
Set to Touch, 21° C *		8 - 12 hrs.
Minimum Recoat (Foot Traffic)		16 hrs.
Maximum Recoat		24 hrs



