

FloroFlex System 6500 RF Elastomeric resilient flooring system

Product Description:

FloroFlex system 6500 RF is a tough, 1.25-1.5mm thick elastomeric, flooring system intended for use in mechanical plant rooms, mezzanines and light duty areas. The system can be combined with one of the Florothane or FloroWear polyurethane coating systems to provide enhanced chemical & abrasion resistance. FloroFlex system 6500 RF is 100% solids, solvent-free and waterproof with an elongation of 155%.

Typical Uses, Applications:

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

- Mechanical plant rooms
- Mezzanines
- Light industrial facilities

Product Advantages:

- 155% Elongation
- Solvent free, 100% solids
- Non deteriorating in low temperatures
- Able to withstand heavy loads, extreme weather conditions, abrasion, chipping and high impact
- Can be textured to provide enhanced slip resistance
- A variety of colours can be achieved with the addition of Florock 100% Solids colourants

Packaging:

Floropoxy system 4700 epoxy primer

2 - part A & B. 15.14 ltr pack when mixed
Mix ratio 3:1 by volume

FloroFlex 6500 RF membrane

2- part A&B
11.4 litres pack size (when blended)
Mix ratio 2;1 by volume

Storage:

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

Coverage:

Floropoxy 4700 primer

Approx 4.0m²/ltr @ 0.25mm. Each 15.14 litre batch will treat approx 60 m²

FloroFlex 6500 RF membrane

Applied as a two layer system. Each layer should be applied at approx 2m²/ltr @ 0.5mm. Each 11.4 litre batch will treat approx 11m² @ 1.0mm dft

Cured Physical Properties 6500 membrane		
Property	Test Method	Results
Hardness, Shore A	ASTM D2240	75
Tensile Strength	ASTM D412	460 PSI
Impact Resistance	ASTM D2794	Excellent
Elongation	ASTM D412	155%
Abrasion Resistance, Taber Abrader CS 17-Wheel, 1000 gm load, 1000 cycles	ASTM D4060	100 mg loss
Tear Strength	ASTM D6240	300 pli

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 the floor temperature is above 32° C or below 13° C, or when within 3° C of the dew point.

1. 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. FloroFlex system 6500 RF membrane 1st layer

In a clean, dry container, mix 2 parts by volume of System 6500 RF Component A with 1 part by volume of Component B. With a slow speed mechanical mixer, mix well for 3 to 5 minutes. Apply the blended System 6500 RF using a 3mm notched trowel or notched squeegee at an approximate rate of 2m²/ltr and then backroll with a 10mm nap roller. This will produce a dry film thickness of approx. 0.5mm. Where enhanced slip resistance is required, aluminium oxide (to desired texture) should be broadcast into the wet 6500 RF to refusal. Allow to cure for a minimum of 16 hours.

Note: For field tinting System 6500 RF, add one litre of Florock Epoxy Colourant to each 11.4 ltr batch of System 6500 RF

3. FloroFlex system 6500 RF membrane 2nd layer

Following curing, sweep off all loose aggregate prior to installing a second layer as per step 2 above.

Optional Finish Topcoats:

To enhance FloroFlex System 6500 RF’s abrasion, chemical, impact and slip resistance characteristics, a range of high performance topcoats are available. Apply optional finish top coat within recoat window.

Please consult your Florock Technical Representative for further information.

Colours

FloFlex System 6500 RF is available in 12 standard shades. Please refer to colour sheet.

Liquid Physical Properties 6500 Membrane	
Blended Components	M0-099 / U0-157
Sollids by Weight	100%
Solids by Volume	100%
Spread Rate	2m ² /ltr @ 0.5mm
Weight per litre	1.02 kg
Viscosity	2000 cps
SETA Flash	>93° C
Pot Life (4.5 kg mass @ 25° F)	17 min.
Mixing Ratio	2:1 by volume
Dry time @ 25° C @ 50% RH	
Set-to-Touch	7-8 hours
Minimum Recoat	16 hours
Maximum Recoat	24 hours
Full Chemical Cure	7 days
Floor & Air Temp. Limitations	13° C - 32° C
Recommended Clean-Up Solvent	Xylene

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.

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DISCLAIMER:

All preceding statements and recommendations 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.

