

## FloroFlex System 6500 EM Elastomeric Waterproofing Membrane

### Product Description:

FloroFlex System 6500 EM is an elastomeric waterproofing membrane which has been designed to be installed beneath Florock mortar systems to provide a 100% barrier to positive water transmission. FloroFlex system 6500 EM can also be used in conjunction with a glassfibre reinforcing membrane to provide strategic strength to substrates that exhibit surface cracking and crazing. In addition, 6500 EM can be installed as a flexible membrane over sound quarry tiles, prior to overlaying with one of the Florock specialist mortar and coating systems. This two-component, 100% solids system is solvent-free and has an elongation factor of 155%.

### Typical Uses, Applications:

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

- Parking Decks
- Mechanical rooms
- Mezzanine floors
- As a sub-base in Kitchens, shower rooms and wash bays
- As a flexible membrane over soundly adhering quarry tiles

### 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
- A variety of colours can be achieved with the addition of Florock 100% Solids colourants

### Packaging:

2- part A&B (liquids)  
11.4 litres pack size (when blended)

### Optional reinforcing membrane

1 metre x 25m, glassfibre veil (300 grams weight)

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

### Coverage:

#### Unsupported membrane option

Approx 2m<sup>2</sup>/ltr @ 0.5mm. Each 11.4 litre batch of FloroFlex system 6500 EM will treat approx 22m<sup>2</sup> @ 0.5mm dft

#### Glassfibre reinforcing membrane option

Approx 1.3m<sup>2</sup>/ltr @ 0.75 mm. Each 11.4 litre batch of FloroFlex system 6500 EM will treat approx 15m<sup>2</sup> @ 0.75 mm dft

Cured Physical Properties		
Property	Test Method	Results
Hardness, Shore A	ASTM D2240	75
Tensile Strength	ASTM D412	3.18 N/mm <sup>2</sup>
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.*

### Primer Application: System 4700 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 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.*

### FloroFlex system 6500 EM Application: Unsupported membrane option

In a clean, dry container, mix 2 parts by volume of System 6500 EM 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 EM using a 3mm notched trowel or notched squeegee at an approximate rate of 2m<sup>2</sup>/ltr and then backroll with a 10mm nap roller. This will produce a dry film thickness of approx. 0.5mm.

### FloroFlex system 6500 EM Application: Supported membrane option

In a clean, dry container, mix 2 parts by volume of System 6500 EM 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 EM using a 3mm notched trowel or notched squeegee at an approximate rate of 2m<sup>2</sup>/ltr and then backroll with a 10mm nap roller. This will produce a dry film thickness of approx. 0.5mm. Immediately after backrolling, apply 1m wide 300 grams glassfibre

reinforcing membrane into the surface of the 6500 EM and saturate the fabric with additional 6500 EM. This will produce a system total dry film thickness of 0.75mm. Overlap the glassfibre membrane by approx. 100mm.

**Note:** It is important that the glassfibre reinforcing membrane rests on the surface of the 6500 EM membrane prior to saturation. Do not attempt to work the fabric into the 6500 EM as this may generate air pockets and voids in the membrane matrix which may result in the system not functioning correctly.

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

Liquid Physical Properties	
Blended Components	M0-099 / U0-157
Sollids by Weight	100%
Sollids by Volume	100%
Spread Rate @ 0.5mm/.75mm DFT	2m <sup>2</sup> /ltr / 1.5m <sup>2</sup> /ltr
Weight per litre	1.02 kg
Viscosity	2000 cps
SETA Flash	>93° C
Pot Life (4.5kg mass @ 25° C)	17 min.
Mixing Ratio	2:1 by volume
Drying 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

Please read Material Safety Data before using product.

**Please read material safety data before using product.**

#### 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.