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## **LUXAPOOL SEF 'STRUCTURAL EPOXY FILLER'**

**Luxapool SEF** is a specially formulated 'non-sag' gap filling epoxy compound. This easy to use, two part equal volume mix sets rapidly to a tough and chemical resistant final cure suitable for swimming pool repair and miscellaneous engineering use.

The product adheres strongly to most surfaces including concrete, sound cement render, fiberglass, marblesheen, pebblecrete, stone and cleaned steel surfaces. It is well suited as the final stage for 'concrete cancer' repair, and for re-instituting failed cement render, stone and marblesheen surfaces.

### **USE AREAS:**

The unique properties mix of adhesion, toughness, and chemical resistance of **Luxapool SEF** is optimised for use in the repair of:

- Private and commercial swimming pools and other marine facilities
- Concrete floors and stairs
- Concrete tanks and pipes
- Natural stone, brick and ceramic surfaces
- Suitable for grouting applications in most concrete structures.

### **BENEFITS:**

- 100% solids compound with simple 1:1 volume mix ratio
- Easily blended creamy texture with 'colour coded' components
- Minimal-sag on vertical surfaces
- Good pot-life with quick progression of to cure properties
- Dramatically reduces the time required from preparation to initial coating
- Cured properties are much superior to high strength concretes

### **AVAILABILITY:**

Luxapool SEF is available in 2, 4 and 8 litre kits all packed in plastic 'mini pails'.

### **PRODUCT CHARACTERISTICS, UNCURED:**

	<b>BASE 'A'</b>	<b>HARDENER 'B'</b>
Consistency	Thixotropic Paste	Thixotropic Paste
Colour	White	Dark Grey
Mix Ratio	Equal volumes of each component	
Mixing Technique	Mix until uniform colour results.	
Pot Life, 1 L @ 25°C	Typically 45 minutes	
Minimum Cure Time@ 25°C	6 hours before recoating	
Application Range	10 > 35°C	
Full cure	72 hours @ 25°C	
Flash Point	Exceeds 100°C, both components	

**PHYSICAL PROPERTIES, CURED**

100 grams, cured 16 hrs @ 40°C	
Flexural Strength	26 MPa
Flexural Modulus	2450 MPa
Compressive Strength	41 MPa
Tensile Strength	30-35 MPa
Water Absorption, ASTM D570 10 days @ 25°C	<0.5% by weight
Maximum Operating Temperature	65°C

**SURFACE PREPARATION:**

All surfaces to be filled should be free from oil, grease and other contamination including residual body oils and sunscreen residues. In such cases use Luxapool Concentrated Wash in accordance with instructions.

Calcite residues and general laitance on concrete, render, marblesheen and stone surfaces should be removed by mechanical abrading or acid etching. Use 1:1 volumes of Hydrochloric Acid : Water at a spreading rate of about 1 L per sq. metre. Allow minimum 10 minutes contact time then neutralize, or flush with adequate fresh water. Allow to dry to a 'good visual standard'.

Remove any dust from grinding techniques.

Metal surfaces should be mechanically abraded, or grit blasted. DO NOT polish as will result from wire brush cleaning.

**APPLICATION:**

By trowel, spreader blade or similar.

**DRY TIME/RECOAT TIME/FULL CURE:**

Normally touch dry within 2 hours. Recommended recoat with Luxapool Epoxy Finish, depending on temperature and humidity is 6 -24 hours.

Full cure is obtained after 72 hours at 25°C, 50% R.H.

**MIXING:**

Ensure that the temperature of both components exceeds 15°C, and ideally that it is between 15 > 20°C. Mix equal quantities of Part A with Part B in a clean plastic or metal can or similar. Mix thoroughly until an even pale grey colour results across the whole quantity. Use product immediately. 'Break' the cured product out of flexible containers if required for re-use.

**CLEAN-UP:**

Clean all equipment with Luxapool Solvent A or LT immediately after use.

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