EPILOX 246 SL

TWO-PART SELF-LEVELING, INTERMEDIATE LEVEL, SOLVENT FREE EPOXY RESIN COATING

DESCRIPTION

EPILOX 246 SL is a two-component solvent free, low viscosity epoxy resin coating at a minimum thickness of 0.5 mm in a single application. This system consists of a pre-weighed base and hardener component.

A slip resistant texture can be provided by the use of one of a range of CHEMIND Anti-slip Grains.

ADVANTAGES

- Good chemical resistance & bonding strength.
- It has a very low odour due to the nature of solvent free.
- Slip resistant- different textures available to suit conditions to avoid slipping.
- Good abrasion resistance to foot and light vehicular traffic.

USES

EPILOX 246 SL can be used for self-smoothing and broadcast systems for concrete and cement screeds with normal up to medium heavy wear.

EPILOX 246 SL provides a hard wearing floor finish with chemical and abrasion resistance. It is ideally suited for use in wet areas where a high degree of resistance to chemicals, oils and grease are required such as:

- Production facilities
- Chemical manufacturing plants
- Car parks and workshops
- Laboratories
- Hospital

TECHNICAL AND MECHANICAL PROPERTIES

Density	Part A: 1.28 kg/m^3 Part B: 1.09 kg/m^3 Mixed A + B: 1.22 kg/m^3
Solid Content	~ 100% by weight
Compressive Strength (BS 6319:Part 2:1983)	> 44 N/mm^2
Flexural Strength (BS 6319:Part3:1990)	> 65 N/mm^2
Surface Hardness (BS EN 13892-6:2002)	> 36 N/mm^2
Bond Strength by Pull-off Method (BS EN 13892-8:2002)	> 2.2 N/mm^2
Water Absorption (Korstner Test)	0%
Abrasion Resistance (ASTM D4060-14) CS10 Wheel, 1000 g load	57.25 mg Weight Loss
Heat Resistance ASTM D 2485-91:2013)	Up to 200 °C
Water Vapor Transmission (ASTM E96-16)	0.22g/h/m^2

TYPE

INDUSTRIAL FLOORING

ADVANTAGES

SELF LEVELLING | HIGH TENSILE | ECO FRIENDLY | HYGIENE TECH | CHEMICAL RESISTANT

COVERAGE (PER COAT)

0.3 kg/m^2

COATINGS

2 coats (min)

COMPONENT

2 PART

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CHEMICAL PROPERTIES	
Lactic Acid 10%	Resistant
Citric Acid 10%	Resistant
Acetic Acid 10%	Resistant
Hydrochloric Acid 50%	Resistant
Sulfuric Acid 50%	Resistant
Nitric Acid 25%	Resistant
Sodium Hydroxide 50%	Resistant

Note: For more chemical resistance data, please refer to the technical department of the manufacturer.

POT-LIFE AND WAITING TIME		
	@20°C	@30°C
Pot Life	40 mins	20 mins
Time Between Coats	Up to 24 hours	Up to 15 hours
Light Traffic Use	24 hours	18 hours
Full Traffic Use	48 hours	24 hours
Full Cure	~ 7 days	~ 5 days

NOTE: *Times are approximate and will be affected by changing ambient conditions*

COLOUR/APPEARANCE

Part A: Resin (Coloured, liquid)
Part B: Hardener (Transparent, liquid)

Available in many RAL code colours. Custom colours are available upon request.

For lighter colour shades, it may be necessary to apply several coats of **EPILOX 246 SL** to achieve full opacity.

There may be discolouration and colour deviation when under direct sun radiation. However, this will have no influence on the function and performance of the epoxy coating. The grade of glossiness of the applied material is influenced by environmental temperature and absorbency of the substrate.

SURFACE REQUIREMENT & PREPARATION

Concrete substrate must be sound and of sufficient compressive strength of minimum 25 N/mm^2 with a minimum pull off strength of 1.5 N/mm^2. Surface to be coated must free of oil, loose particles laitance and other contaminants in order to achieve maximum adhesion.

Any ponding water must be wiped dry before application. Because **EPILOX 246 SL** can be relatively thin, the substrate must be fine textured. Any surface irregularities may show through causing excessive wear on high spots and changing the perceived colour of the coating.

Substrates must be prepared mechanically using abrasive blast cleaning or scarifying methods to remove cement laitance and achieve an open textured surface. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products such **CMFIX 100, DURAFLOR C24, CHEMGROUT 215** or other suitable products under the approval of the Manufacturer.

The substrate must be primed or levelled in order to achieve an even surface. All dust, loose and friable material must be completely removed from all surfaces before the application of the product, preferably by brush and vacuum.

MIXING

Mix one can of **EPILOX 246 SL** resin (Part A) with one can of **EPILOX 246 SL** hardener (Part B) thoroughly until an even color is achieved. This should not be more than 3 minutes and making sure that mixing is done with a heavy-duty slow speed drill (300 – 400 rpm) or other suitable equipment fitted with a suitable spiral mixing paddle in order to avoid unnecessary air inclusion.

Do not mix solvent/thinner at any time.

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APPLICATION METHOD

Apply the first primer coat **EPIPRIME** on the base at 0.15 - 0.20 kg/m^2 with a good quality medium haired pile roller, suitable for epoxy application. Ensure loose hairs of roller are removed prior to application. A minimum film thickness of 100 microns should be applied.

1) Coating Application

When the primer later has reached initial cure, apply second coat of **EPILOX 246 SL** at 0.30 - 0.40 kg/m^2 within its pot life with a brush or roller to achieve a minimum film thickness of 300 microns. Immediately release air by spike rolling.

2) Self-Leveling Application

For self-leveling, spread **EPILOX 246 SL** at 2.5 to 3.0 kg/m^2 using a steel trowel to achieve minimum thickness of 2 mm.

ANTI-SLIP APPLICATION

If an anti-slip texture is required, the base coat shall be applied as per standard application. The base coat should then be dressed with a chosen Anti-slip Grain grade. This should be done as soon as possible after laying the priming layer before it completely cures.

(Broadcast grains in excess on top of priming layer to completely obliterate the base coat).

Alternatively, Anti-slip Grain can be broadcasted lightly and randomly for a less dense finish. When the base coat has reached full cure, excess grains should be vacuum cleaned.

Top coat can now be applied by a medium hair roller at a rate of 3-4m^2/kg. Care must be taken to ensure the coat with aggregate grains must be completely sealed. The top coat must be applied within 24 hours of the application of the first coat.

CLEANING

Tools and equipment should be cleaned with solvent or thinner immediately after use. Spillages should be absorbed with sand or sawdust and disposed of in accordance to local standards.

LIMITATIONS

EPILOX 246 SL should not be applied on to substrates known to suffer from rising damp or having a relative humidity reading greater than 80%.

Refer to CHEMIND INDUSTRIES SDN BHD for further advice.

EPILOX 246 SL should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 85%.
Beware of condensation. Substrate and uncured floor must be at least +3°C above dew point to reduce risk of condensation or blooming on the floor finish.

Chemind strongly recommend shot blasting or floor scarifying as the methods for surface preparation, not acid etching.

In common with all epoxy materials, some slight shade of changes in colour may be experienced over the long term when placed in adverse exposure conditions. Any change in shade or colour is not regarded as being detrimental to performance.

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COVERAGE AREA

Priming Coat:

EPIPRIME at ~0.15 – 2.0 kg/m^2

Sealer Coat:

2 to 3 coats of **EPILOX 246 SL** at ~0.30 – 0.40 kg/m^2 per coat (DFT 300 microns)

Self-Leveling:

Spread **EPILOX 246 SL** with rubber/steel trowel at ~2.0 – 3.0 kg/m^2 (Film thickness of ~ 2 mm)

Broadcast System:

1 EPIPRIME + 1 sealer coat of **EPILOX 246 SL** + Quartz sand (0.1 to 0.3 mm) at ~ 1.0 kg/m^2 + 1 seal coat of **EPILOX 246 SL** at 0.7 kg/m^2 (Film thickness of ~ 1.5 – 3.0 mm)

PACKAGING

6.5 kg set (5 kg Part A, 1.5 kg Part B).

COLOURS

Available in standard flooring colours and in clear. Other colours can be matched upon request.

STORAGE AND SHELF-LIFE

A shell-life of up to twelve (12) months can be expected if stored in warehouse conditions below 35 ºC in original, unopened packs.

HEALTH & SAFETY

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

Made In Malaysia

SCOPE OF REGISTRATION AND STANDARDS

Manufacture of Waterproofing materials. Compliance with ASTM technical standards and AS 3740 - 2004 Australia Standard. SIRIM certification is available for selected products upon request, subject to applicable testing and certification requirements.

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