

EPIFLEX

Resin Mortar Transition Strip & Gap Filler

Description

Epiflex is a three component epoxy-urethane resin, it may be used as an "unfilled" two part system for narrow gaps or "filled" three part system (as standard) for wider gaps. Typical uses include car park and bridge joint transition strips and the filling of voids and joints in concrete, stone and granite elements. Epiflex is suitable for use on pedestrian or vehicular trafficked areas and complies with Highways Agency Specification for Highway Works.

Epiflex is flexible, non-shrink and is tolerant to damp surfaces. It will provide high bond strength with a variety of materials including artstone, natural stone and concrete, and has an excellent adhesive quality even on non-porous surfaces such as granite and metal.

Advantages

- No primer required.
- Excellent bond strength.
- Resistant to road salts and fuel oil.
- Hard wearing with inbuilt flexibility.
- Extremely low Modulus of Elasticity in flexure.
- Durable and long lasting.
- Excellent adhesion to concrete, stone, asphalt and metal.
- Tolerates damp conditions.
- Very long service life.

Surface Preparation

All surfaces should be clean, dry and free from all loose material.

Mixing

The entire contents of the hardener tin should be added to the base tin and thoroughly stirred using a slow speed drill fitted with a mixing paddle. The mixed resin components should then be transferred to a suitable container and the aggregate component added and thoroughly mixed.

Technical Information

| | |
|-----------------------------------|---------------------|
| Colour: | Black |
| Mixing Ratio: | Only full packs |
| Pot Life at 20°C: | 3 hours |
| Pot Life at 5°C: | 4 hours + |
| Full Cure: | 7 days |
| May be trafficked after 24 hours. | |
| S.G.: | Mixed material 1.99 |

| | Unfilled 2 Part (narrow gaps) | Filled 3 Part (wide gaps) |
|---|--|------------------------------|
| Compressive Strength BS1881:Part 116 | 12 N/mm ² | 22 N/mm ² |
| Modulus of Elasticity in Flexure BS6319:Part 3 | Bar continued to bend, no failure at max deflection allowed by 4 point jig | |
| Flexural Strength BS2782 Part 3 | Bar continued to bend, no failure at max deflection allowed by 3 point jig | |
| Tensile Strength BS6319 Part 7 | 8.1 N/mm ² | >4 N/mm ² |
| Full Cure | 7 days | 7 days |
| Yield per pack | 3.6 ltrs (5 Kg) | 10 ltrs (20 Kg) |

Lab test results after 7 days @ 20°C

Additional Information

| | |
|-------------------------------|--------------|
| Cure before stress 20oC | 24 hours |
| Vehicular Trafficking Time | |
| Summer >15°C | 1 - 3 days |
| Winter >5°C | 3 - 5 days* |
| Application Temperature Range | * 5oC - 35oC |
| Minimum width | |
| Unfilled 2 part system | 2mm |
| Filled 3 part system | 20mm |

* For application below 5°C or to accelerate cure, tent and heat to between 40°C - 50°C.

Application Instructions

Prior to placement, the resin, together with the aggregate, should be kept warm or heated to assist speed of cure. Carefully place the mixed Epiflex between joint and road surface taking care not to entrain air. Leave to settle and then top up to correct level.

Curing

Epiflex is designed as a cold curing system, for application below 5°C or to accelerate the cure for early trafficking, tent and heat to between 40°C to 50°C.

Packaging

Epiflex is available in 20 kg units (yield approximately 10 litres)

Storage

Epiflex should be stored at normal temperatures. In cold conditions warming the containers prior to mixing will greatly assist. Epiflex should be stored away from foodstuffs and out of the reach of children.

Health & Safety

Epiflex, like similar products, is capable of irritating unprotected sensitive skin, we therefore recommend the use of a suitable barrier cream and/or gloves.

Limitations

Do not apply at temperatures below 5°C. A method statement is available detailing application requirements.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available throughout the UK to provide further information and arrange demonstrations.



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