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PUFFIN EPOXY EPOGROUT NORMAL HC

A three-component, solvent-free, moisture-tolerant epoxy grouting system designed for multipurpose applications. Suitable for use at temperatures ranging from +10°C to +30°C. Puffin Epoxy EpogROUT Normal HC is used for high strength grouting and fixing for starter bars, anchors, fasteners, Tie rods, Crash barrier post, Fence and railing post

1. Properties

COLOR	Concrete Grey
GLOSS LEVEL	Glossy
FILM THICKNESS	150 mm (10°C - 20°C) 100 mm (20°C - 30°C)
THEORETICAL SPREADING RATE (M ² /L) (Max)	1 kg/set untuk 2m ² (150 mm thickness) 1 kg/set untuk 3m ² (100 mm thickness)
SOLIDS (VOL %)	100
SPECIFIC GRAVITY (gr/cc)	± 2.13
FLASHPOINT	N/A
PRACTICAL COVERAGE	ALLOW APPROPRIATE LOSS FACTORS

2. Characteristics

- High early strength
- Moisture tolerant
- Corrosion and chemically resistant
- Stress and impact resistant
- High compressive strength
- High vibration resistance
- Low coefficient of thermal expansion

TECHNICAL INFORMATION

EFFECTIVE BEARING AREA	>90%
MODULUS OF ELASTICITY IN COMPRESSION	18000 N/mm ²
MODULUS OF ELASTICITY IN FLEXURE	16000 N/mm ²
MODULUS OF ELASTICITY IN TENSION	13500 N/mm ² k
TENSIL STRENGTH IN FLEXURE	32 N/mm ²
TENSIL STRENGTH	15 N/ mm ² (after 7 days at + 30°C)
TENSIL ADHESION STRENGTH	9 N/ mm ² (Steel) 2.0 N/ mm ² (Concrete)
THERMAL COMPATIBILITY	No delamination
HEAT DEFLECTION TEMPERATURE	55°C (after 7 days at + 30°C)
WATER ABSORPTION	0.059%

Suitable for:

Suitable Primarily designed for maintenance and repair structural steel and piping exposed in corrosivity

Recommended for high strength grouting and fixing of starter bars, anchors, fasteners, Tie rods, Crash barrier post, Fence and railing post

3. Usage

1) Surface preparation:

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

2) Substrate Minimum and Maximum Recommended:

Steel

: The surface and base plate contact area must be cleaned and prepared to Sa 2.5 standard, ensuring they are sound, dry, and free from dust, oil, grease, coatings, loose materials, and other contaminants. Avoid dew point conditions, keep anchor pockets free of water, and apply the grout immediately after preparation to prevent rust formation.

Concrete, Mortar and Stone : The substrate must be structurally sound, clean, and dry, with all laitance, standing water, ice, grease, oil, existing coatings, and other contaminants removed. Any loose or weak material shall be eliminated to provide a clean, contaminant-free, and adequately textured surface for application.

3) Application:

Use properly sealed formwork to contain the epoxy grout and prevent leakage, applying polyethylene film or wax to avoid adhesion. Pour the grout from one or two sides only to minimize air entrapment and ensure proper contact with the base plate. Maintain a minimum void depth of 12 mm, and for depths exceeding 150 mm, apply the grout in successive lifts of 150 mm or less, allowing each lift to cool before the next. After curing, verify adhesion by tapping the surface with a hammer.

Mixing ratio

Puffin Epoxy EpogROUT Normal MP Base A : 5
Puffin Epoxy EpogROUT Normal MP Base B : 1
Puffin Epoxy EpogROUT Normal MP Base C : 30

4) Drying and Curing time:

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

Walk-on-dry:

Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.

Dry to over coat, minimum:

The recommended shortest time before the next coat can be applied.

Dried/cured for service

Minimum time before the coating can be permanently exposed to the intended environment/medium.

APPLICATION INFORMATION

Substrate Temperature (°C)	+15°C min. / +30°C max
Product Temperature	+15°C min. / +30°C max.
Ambient Air Temperature	+15°C min. / +30°C max
Peak Exotherm	44°C (at +23°C)

5) Precaution

- a. Ensure to clean the surface before application.
- b. Health and 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.
- c. Storage: The product must be stored in accordance with national regulations. Keep the containers in a dry, shaded, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

6) Packing : 12 & 24 Kg/Set