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PUFFIN EPOXY EPOGROUT SLOW HC

A three-component, solvent-free, moisture-tolerant epoxy grouting system designed for multipurpose applications. Suitable for use at temperatures ranging from +25°C to +40°C. Puffin Epoxy EpogROUT Slow HC have a high strength grouting and fixing of starter bars, anchors, fasteners, tie rods, crash barrier post, fence and railing post.

1. Properties

COLOR	Concrete Grey
GLOSS LEVEL	Glossy
FILM THICKNESS	150 (20°C - 30°C) 100 (30°C - 40°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
- Ready to mix pre batched units
- Moisture Tolerant
- Non shrink
- Corrosion and chemically resistant
- Stress and impact resistant
- High compressive strength

TECHNICAL INFORMATION

EFFECTIVE BEARING AREA	>90%
MODULUS OF ELASTICITY IN COMPRESSION	20.000 N/mm ²
TENSIL STRENGTH IN FLEXURE	35 N/ mm ²
MODULUS OF ELASTICITY IN FLEXURE	15.000N/mm ²
TENSIL STRENGTH	15 N/ mm ²
MODULUS OF ELASTICITY IN TENSION	12.500 N/mm ²
ELONGATION AT BREAK	1.6%
CREEP	4.14 N / mm ² 2.76 / mm ²
THERMAL COMPATIBILITY	No delamination
TENSIL ADHESION STRENGTH	9 N/ mm ² (On steel) 2.0 N/ mm ² (Concrete Failure)
DENSITY	2.130 Kg/m ³
HEAT DEFLECTION TEMPERATURE	54°C (after 7 days at + 23°C)
WATER ABSORPTION	0.055%
PRACTICAL COVERAGE	ALLOW APPROPRIATE LOSS FACTORS

APPLICATION INFORMATION

Substrate Temperature (°C)	+20°C min. / +40°C max
Layer Thickness	100 - 150
Product Temperature	+15°C min. / +30°C max.
Ambient Air Temperature	+20°C min. / +40°C max
Peak Exotherm	41°C (at +23°C)

3. Usage Instructions

1) Surface preparation:

Substrate Quality	:	Mortar and concrete must be cured for at least 28 days or meet the required strength. All substrates (concrete, natural stone, steel, etc.) must be sound, clean, dry or not damp, and free from dirt, oil, grease, old coatings, and other contaminants. Steel surfaces must be prepared to Sa 2.5 standard. Remove all loose particles, standing water, and ice before application.
Steel	:	Steel surfaces must be prepared to Sa 2.5 by blast cleaning and vacuuming. The substrate and base plate contact area must be clean, sound, and preferably dry. Remove dust, laitance, oil, grease, curing compounds, coatings, loose materials, and other contaminants by mechanical methods. Avoid dew point conditions, ensure anchor pockets are free of water, and apply the grout immediately after preparation to prevent rust formation.
For optimum result	:	The surface shall be clean, dry and appear with a rough and dull profile.
Concrete, mortar, stone	:	Substrates must be sound, dry, clean and free from laitance, ice, standing water, grease, oils, old surface treatments or coatings and all loose or friable particles must be removed to achieve a laitance and contaminant free, open textured surface.

2) Substrate Minimum and maximum Recommended:

The substrate temperature must be at least 20°C, and the material should be conditioned at 20–30°C for 48 hours before use. Do not dilute with solvents. Grout thickness should be 10–150 mm per lift, with the final lift maintained at 50 mm. Ensure Component C remains dry and mix only complete units. Low temperatures may affect curing and flow properties. Avoid sudden temperature changes during early curing. Long-term structural loads should generally not exceed 20–25% of the failure load, considering creep effects.

3) Application Method:

The substrate temperature must be at least 20°C, and the material should be conditioned at 20–30°C for 48 hours before use. Do not dilute with solvents. Grout thickness should be 10–150 mm per lift, with the final lift maintained at 50 mm. Ensure Component C remains dry and mix only complete units. Low temperatures may affect curing and flow properties. Avoid sudden temperature changes during early curing. Long-term structural loads should generally not exceed 20–25% of the failure load, considering creep effects.

- a. 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.

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