Permeable high-strength adhesive injection material/rust-prevention primer

Terrific GC-110

Terrific GC-110 has the same performance as conventional Terrific GC-100, but also has higher volatile content and reaction curing time.
As a result, it is a primer that improves drying and coating performance and further enhances rust prevention.
It is also an ideal material for injection performance against cracks and the like.

■ Applications/features

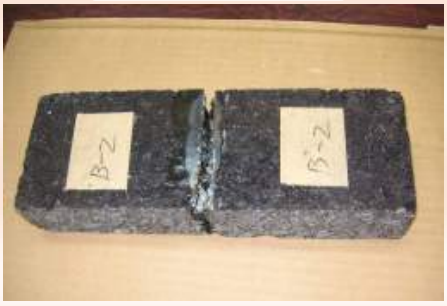
・As an injection adhesive

Due to its high solids content, it penetrates deep into cracks and exhibits good adhesion.
It has excellent injection adhesive strength compared to commercially available solvent-based epoxy injection materials.

Comparison with solvent-based epoxy resin injection

Bonded to broken asphalt with injection material.
After curing, a bending test was conducted again to measure the recovery rate.

Breaking condition



Test results

Test items Materials	Flexural strength (Pa)	Recovery rate
AS mixture	1.05	——
Solvent-based epoxy injection material	0.38	36.1%
Terrific GC-110 (Reference: Injection after pre-application)	0.44 (1.04)	42.1% (99.2.%)

・As a mirror primer

Even if rust remains, it dries and hardens quickly, and since it is water-based, it can adhere to the rusted surface.
You can prevent further rusting by applying it.

Five months have passed since each rust preventive was applied to the rusted iron part.

Left side:
Competitor's product
Rust is emerging on the paint

Right:
GC-110
Rust does not appear,
Maintains anti-rust effect

■ Product characteristics and properties

Color clear
Slightly glossy finish
Mixing 1:0.5 (main agent: curing agent) (volume ratio)
Resin content 34.0±2.0%

■ Construction points

Product		As an injection material	As an anti-rust primer
Mixed Combination Ratio	**GC-110**	100	100
	Pure water	Undiluted	Undiluted
Recommended number of coats		1～2	2
Coating amount		—	150g/㎡/each
Pot life	20℃	2 hours	2 hours
	35℃	1 hour	1 hour
Curing contact drying time		2 hours or more	2 hours or more
Curing drying time		16 hours	16 hours

■ Precautions for construction and handling

- Avoid construction when the surface temperature is 10°C or less, or when the humidity is 35°C or more and the humidity is 85% as much as possible.
- Do not apply if it is likely to rain.
- After stirring, if the pot life (1 hour) has passed, discontinue using it.
- The equipment used for construction should be washed well with hot water, cold water, or a neutral detergent immediately after construction.
- Avoid direct contact with skin and eyes, and avoid breathing vapor or mist.
- Prolonged contact may cause skin sensitivity and itchy eyes. In case of contact, wash clothes and skin with water, and in case of contact with eyes, rinse with water for at least 15 minutes and consult a doctor.

■ Packaging unit

0.75kg kit (main agent 500g: curing agent 500g)
3 kg kit (main agent 2kg: curing agent 1kg)
15 kg kit (main agent 10 kg: curing agent 5 kg)

[Development/Manufacturing]

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