Anionic Acrylic Resin

Terrific GC-13

- Excellent adhesion to various substrates including old coatings.
- Low adhesion selectivity for various topcoat materials
- Excellent solvent resistance with no lifting when applying a solvent-based topcoat.
- Excellent as a pigment admixture as it can be used in high PVC coatings.

Item	GC-13
Appearance	"Blue-white water-based emulsion"
Evaporation residue (%)	55
Viscosity (mPa・s)	500
pH	9
Minimum film forming temperature	0°C or less
Particle size	0.14

Viaduct Repair

GC-100 water-based epoxy resin coating

GC-13 resin mortar coating completed

Factory Floor Repair

Under construction

GC-13 resin mortar coating completed

【Features】

*Excellent adhesion strength of silica sand mortar and polymer mortar to aged concrete.

* GC-13: Adequate adhesive strength can be expected even if it is mixed with clear water (1:1) and used as a mixed water for mortar or as a resin mortar.

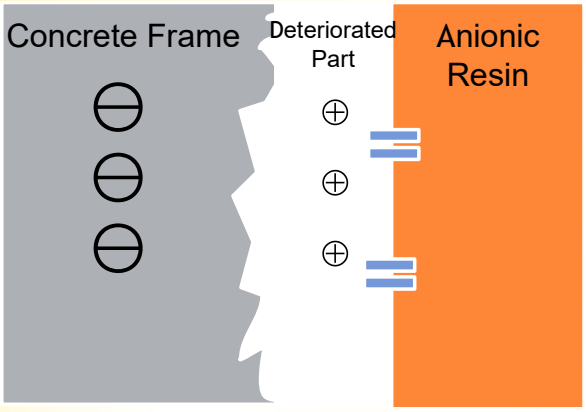
* After confirming the strength of GC-13, the peel strength does not decrease even if it is placed in a wet state.

[GC-13 Adhesion Performance] Resin: Water Ratio = 1:1

	Wet Concrete	Salt Damaged Concrete	Salt Calcium Damaged Concrete
Peel Strength (JIS A 6909) (N/㎟)	２．６９	２．８０	２．５９

[GC-13 Resin Mortar]

Resin : Water Ratio	１：１	１：１.５
Peeling Test (JSCE-K 531) (N/㎟)	３．８０	３．６４
Bending Strength (JIS R 5201) (N/㎟)	９．４８	１０．３０
Compression Strength (JIS R 5201) (N/㎟)	３３．３	３６．１
Permeability Test (g)	１．５	０．７
Salt Penetration Test (mm)	６	—
Length Change Rate (%)	０．０４５	０．０２８
Freeze-Thaw Test (%)	１０２	—



※ Anionic resins tend to be electrically connected to deteriorated parts of concrete.

【Flooring】

Formulation Ratio	Cement	Silica Sand	Water	Resin
	1	1	0．2	0．2
1ℓ	1,200g	1,200g	240g	240g

【Elastic Flooring】

Formulation Ratio	Cement	Silica Sand	Water	Resin
	1	1	0．3	0．3
1ℓ	900g	900g	270g	270g

【Walls and Ceilings】

Formulation Ratio	Cement	Silica Sand	Water	Resin
	1	1．5	0．37	0．15
1ℓ	720g	1,080g	266.4g	108g

【 How to use 】

1. When using as a primer: GC-13 (solution 1) undiluted solution is basic. It is also possible to mix 0.5 to 1 part of fresh water with 1 part of the undiluted solution.
2. If waterproofing is required on a concrete surface: First apply GC100 as a primer. Mix GC-13 and fresh water. Mix 3 parts of wet material (1:1) with silica sand mortar (Portland cement: silica sand = 1:1).
3. For partial repair: GC-13 (undiluted solution) and silica sand mortar should be hard enough to repair.
4. Floor construction: Use GC-100 or GC-500 for cracks before use.
5. Spray resin mortar on concrete surface: Spray GC-13 after cleaning, then spray GC-13 silica sand mortar. *For longer life, we recommend a top coat.

Packaging Units

Package	Contents
2kg	Liquid
10kg	
200kg	

[Handling Precautions]

1. Ventilate the workplace.
2. If the adhesive comes in direct contact with skin, immediately wash thoroughly with soapy water.
3. Keep out of direct sunlight. Keep it in a cool and dark place as much as possible.
4. As time passes, the aggregate may settle in the lower layer, so please stir it until it becomes uniform before use.
5. Be sure to perform an adhesion confirmation test on a small area.

[Development/Manufacturing]

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