

RAMBAX-219

Two-part, solvent free, thixotropic epoxy based impregnating resin / adhesive

Description

RAMBAX-219 is two-part, solvent free, thixotropic impregnation epoxy-based gel. Service temperature of **RAMBAX-219** is ranging from ambient up to +80 °C.

Advantages

- Allows fast creation of true composite with the concrete
- Solvent free
- High mechanical properties
- Good adhesion to many substrates
- Manufactured for manual saturation methods
- Easy mix and application by trowel and impregnation roller
- Suitable for use in vertical and overhead applications
- Good wetting properties
- Good chemical resistance

Application procedure

Surface preparation: Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion. Laitance should preferably be removed by light sweep blasting or hydro-jetting. Mechanical wire brushing may be appropriate for small areas.

Mixing: Mix parts A+B together for at least 3 minutes with a mixing spindle attached to a slow speed (300-600rpm) electric drill until the material becomes smooth in consistency and a uniform grey color. Avoid aeration while mixing. Then, pour the whole mix into a clean container and stir again for approx. 1 more minute at low speed to keep air entrapment at a minimum. Mix only that quantity which can be used within its pot life.

Resin Application: Apply the **RAMBAX-219** to the prepared substrate using a trowel, roller or brush.

Fabric Placement and Laminating:

Place the prepared fabric onto the gel coated surfaces in required direction. Carefully install the fabric onto the gel and force it with a plastic roller until the resin is squeezed out between the roving of the fabric. Final surface has to be smothered to homogeneous.

Typical properties

Appearance	Light gray or brown gel (mixed) Comp. "A": Dark white or Light gray Comp. "B": Dark gray, Dark Brown	
Density (at 25 °C)	N	~ 1.36-1.57 kg/l (mixed)
	PC	~ 1.95-2.21 kg/l (mixed)
Mixing ratio (by weight)	E	A : B = 1 : 1
	N	A : B = 2 : 1
	T	A : B = 4 : 1
Viscosity (at +15°C)	~ 2'000 mPas	
Bonding strength	Concrete fracture on sandblasted substrate (2.5 Mpa)	
Service temperature	-30 to +80 °C	
Pot life	< 3 hrs. at 25°C	
Full cured	After 7 days (at 25 °C)	

Cure time will vary depending on the ambient temperature, quantity mixed and placed.

Coverage (N)	
200 ~ 300 gsm fibre sheet	0.6 to 1.0 kg/m ²
300 ~ 450 gsm fibre sheet	1.0 to 1.5 kg/m ²
450 ~ 900 gsm fibre sheet	1.4 to 2.3 kg/m ²

Weather conditions

Keep **RAMBAX-219** away from direct sunlight. Store in an air-conditioned environment in tropical climate.

Limits

Do not apply **RAMBAX-219** at temperatures less than +5 °C. Age of concrete must be 21~28 days, depending upon curing and drying conditions.

Cleaning

Application tools and equipment should be cleaned after completion of each job or before break time. Uncured material can be washed with approved solvent. Cured material can only be removed mechanically.

Packaging

RAMBAX-219 (A+B, pre-packaged unit dose) is available in (30), (31.25), (40) kilogram Pails.

Shelf Life

RAMBAX-219 Can be stored in tightly closed original containers or under cover out of direct sunlight and protect from extremes of temperature for 12 months at moderate temperature.

Safety precautions

Hands, wrists, face and eyes must be protected from contact with the epoxy material. Keep away from children, animals, and anyone not familiar with the use and hazards of the materials. If skin contact occurs, remove material and use waterless hand cleaner or wash IMMEDIATELY with soap and water or other suitable cleanser and seek immediate medical attention.