



Arina Polymer

شرکت آرینا پلیمر

تولید کننده انواع اپوکسی های ساختمانی

Arina-patch ERM 247

Epoxy based repair mortar, normal weight structural repair material

Introduction:

Arina-patch ERM 247 is three-component, solvent free, normal weight selected aggregate filled, non-sagging epoxy mortar used for bedding and structural repairing of concrete surfaces. The product is high build characteristics combined with optimum chemical and mechanical resistance.

Where to use:

Arina-patch ERM 247 is fast curing and gives high mechanical properties and excellent chemical resistant at early ages, so it is ideal for a variety of repair jobs. It can be used in the following applications:

- Repairing concrete surface.
- As repair mortar for damaged joint edges in concrete.
- As a cavity filling mortar.
- As leveling and bedding layer on surfaces to receive external strengthening.
- As bonding mortar on concrete, steel, masonry, wood, stone, etc.
- As abrasion and impact resistant cover.

Technical information:

Appearance	Grey paste(mixed) Comp. "A": White Comp. "B": Black Comp. "C": light gray powder
Mixing ratio	A : B : C= 3 : 1 : 12 by weight
Specific gravity (at 25 °C)	2.050 kg/l (mixed)
Bonding strength	2.5 MPa (Concrete failed)
Compressive strength	70 MPa (7 days)
Flexural strength	30 MPa
Service temperature	-35 to +65 °C
Full cure	After 7 days (at 25 °C)
Working Time / Pot life	45 min. (25 °C)

Advantage

- Excellent adhesion to concrete and most construction materials.
- Suitable for both, dry and damp substrates.
- Moisture tolerated before, during, and after cure.
- Excellent early and final mechanical strengths.
- Excellent chemical resistance.
- Impact and shock resistance.
- Color coded components to ensure proper mixing control.
- No primer or bonding agent needed on dry substrate.
- Easy to use.
- Low odor.
- Non-sagging and non-slumping material.
- Does not shrink while curing.
- Will not corrode reinforcements.
- Suitable for use in vertical and overhead applications.



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Surface preparation:

The substrate must be sound and free of loose particles. Remove dust, laitance, oil, grease, curing compounds, waxes, disintegrated and other bond inhibiting materials from the surface. Surface can be prepared by blasting methods, grinding, or chipping.

Mixing:

Do not split components and mix at least a full unit. For mixing a full unit, using a low speed drill (max. 400 rpm) fitted to the suitable paddle is recommended. For mixing large quantities use a force electric mixer.

Add component "B" to component "A" and mix them thoroughly for at least 2 minutes or until all striations have disappeared and a uniform color is obtained. Then add component "C" slowly under continuous mixing till a homogeneous mixture be obtain. Avoid entrapping air.

Priming:

Priming is not required for dry and damp surfaces. For wet surface with no standing water, use *Arina-primer LEP 231* as primer.

Application method:

Apply mixed material directly to the prepared substrate by means of spatula, trowel or glove protected hand, depending on application thickness. For smooth finishing use a paint brush dipped in an approved solvent or using a wet trowel with solvent or water.

Material consumption:

Arina-patch ERM 247 approximately 2.050 kg/ m² for 1 mm layer thickness.

Arina-primer LEP 231(if primer required) 250 to 400 Gr/ m².

Limitations:

Minimum layer thickness: 5 mm

Maximum layer thickness: 35 mm

Do not apply at temperatures below +5 °C.

Do not thin by solvent. Solvent will prevent proper curing.

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 at break time. Uncured material can be washed with approved solvent. Cured material can only be removed mechanically.

Storage / Shelf life:

Store out of direct sunlight, and protect from extreme heat and rain fall. The shelf life for originally unopened package is 12 months from date of production.

Packaging:

Arina-patch ERM 247 is available in 8.0 and 16.0 kg. Total unit.

Safety precautions:

Product may cause skin irritation. Use personal safety devices such as gloves and goggles. If contacted with eyes or mucous membrane, wash immediately with plenty of warm water and seek medical attention.