

Arina-patch ERM 249

Epoxy based repair mortar, light weight structural material

Introduction:

Arina-patch ERM 249 is three-component, solvent free, low weight selected aggregate filled, non-sagging epoxy mortar used for bedding and structural repairing of concrete surfaces, with high build characteristics combined with optimum chemical and mechanical resistance.

Where to use:

Arina-patch ERM 249 is fast curing and gives high mechanical properties and excellent chemical resistant at early ages, so it is ideal for a variety of applications. It can be used in the following applications:

- Repairing concrete surface.
- As a cavity filling mortar.
- Undersides leveling of floors, beams, etc.
- As a protective layer and lining on concrete surfaces.
- As light weight bonding mortar on concrete, steel, masonry, wood, stone, etc.

Technical information:

Appearance	Grey paste(mixed) Comp. "A": Transparent Comp. "B": Amber Comp. "C": light gray powder
Mixing ratio	A : B : C= 3 : 1 : 16 by weight
Specific gravity (at 25 °C)	1.450 kg/l (mixed)
Bonding strength	2.5 MPa (Concrete failed)
Compressive strength	35 MPa (7 days)
Flexural strength	20 MPa
Service temperature	-35 to +65 °C
Full cure	After 7 days (at 25 °C)
Working Time / Pot life	60 min. (25 °C)

Advantages:

- Excellent adhesion to concrete and most construction materials.
- Suitable for both, dry and damp substrates.
- Tolerant of moisture before, during, and after curing.
- Good early and final mechanical strengths.
- Excellent chemical resistance.
- Color coded components to ensure proper mixing control.
- Primer or bonding agent is not required on dry substrate.
- Easy to use and low odor.
- Light weight.
- Desired consistency can be obtained by addition or reduction of filler.
- Non sagging and non-slumping material.
- Does not shrink while curing.
- Will not corrode reinforcement.
- Suitable for use in vertical and overhead applications.

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, chipping or high pressure water jetting. Substrate can be dried or wet, but no standing water is permitted.



Arina Polymer

شرکت آرینا پلیمر

تولید کننده انواع اپوکسی های ساختمانی

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 as continuous mixing until mixture is homogeneous. 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 materials 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 249 approximately 1.450 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: 50 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 249 is available in 5.0 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.