

Arina-patch GSP 245

General purpose structural paste based on selected epoxies

Introduction:

Arina-patch GSP 245 is a two-component, solvent free, fine aggregate filled, non-sagging epoxy paste and adhesive use for bedding and repairing concrete surfaces, gap filling and surface preparation for FRP applications.

Where to use:

Arina-patch GSP 245 is a general purpose repair mortar and adhesive which is fast curing and non-shrink while curing. It provides excellent bonding on many construction materials. The product has high mechanical properties and excellent chemical resistant which makes it ideal for a variety of applications. **Arina-patch GSP 245** can be used in following applications:

- Bedding bridge beams or steel bridge bearings.
- Repairing surface defects or honeycombing concrete in horizontal, vertical or overhead conditions.
- Fixing slip bricks to concrete.
- Securing bolts into walls.
- Dowel bars anchoring.
- As a gap filling adhesive.
- Filling bolt pockets.
- Bedding tiles.
- Fixing of surface nipples for crack injection.
- Bonding steel plates, composite strips and laminates to concrete or other masonry materials.

Technical information:

Appearance	Grey paste(mixed) Comp. "A": Cream Comp. "B" : Black
Mixing ratio	A : B = 3 : 1 by weight or volume
Specific gravity (at 25 °C)	1.750 kg/l (mixed)
Bonding strength	2.5 MPa (Concrete failed)
Compressive strength	65 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.
- 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 is required on dry substrate.
- Stiff but easy workable.
- Does not shrink while curing.
- Will not corrode embedded reinforcement.
- Suitable for use in vertical and overhead applications.



Arina Polymer

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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. Substrate must be dried before application

Mixing:

Mix each component separately. Add component "B" to Component "A" and mix them thoroughly using a low speed drill (max. 400 rpm) fitted to the suitable paddle for at least 3 minutes or until all striations have disappeared and a uniform color is obtained. For partial mixing, add 1 part of component "B" to 3 parts of component "A" by weight or volume into a clean pail and mix them thoroughly. Mix only required quantity which can be used within the pot life.

Application method:

Thoroughly mixed *Arina-patch GSP 245* should be applied on substrate using a trowel or spatula. Remove excess materials by moving trowel or spatula in the right angle of application direction. The external strengthening can be done after 4 hours. The epoxy paste will reach designed strength after 7 days.

Material consumption:

Approximately 1.750 kg/ m² for 1 mm layer thickness.

Limitations:

Suitable thickness for each layer: 5 mm

Do not apply *Arina-patch GSP 245* at temperatures less than +5 °C.

Do not thin *Arina-patch GSP 245* 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 GSP 245 is available in 4.0 kg. Total unit Pails.

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.