



Arina Polymer

شرکت آرینا پلیمر

تولید کننده انواع اپوکسی های ساختمانی

## Arina-patch CRM 141

Cosmetic repair mortar, polymer modified cement based powder

### Introduction:

**Arina-patch CRM 141** is a single component polymer modified repair mortar for use as a "fairing coat" or cosmetic mortar. When mixed with water, forms a fine workable mortar which can easily be applied to fill in pores, blowholes and damaged concrete surfaces. The product can also be used as a skin coat prior to the application of protective coatings.

### Where to use:

**Arina-patch CRM 141** is specially formulated to produce a shrinkage compensating mortar with no cracking when applied in thin layers with excellent flexibility and adhesion to concrete. **Arina-patch CRM 141** can be used for following applications:

- As a fairing or skin coat to cover and make good finish in concrete surfaces containing slight honeycombing, blowholes, defects caused by 'sand runs', patch repairs, shutter movement and grout losses.
- Preparatory treatment of concrete to receive a thin film protective coating.
- To produce a uniform surface over repaired areas.

### Technical information:

Appearance	Grey powder
Mixing water	18% to 25% powder weight
Specific gravity	1.350 kg/l (mixed)
Service temperature	-35 to +65 °C
Full cure	After 28 days (at 25 °C)
Working Time / Pot life	60 min. (25 °C)

### Advantages

- Precision made, consistent results.
- Requires only the addition of mixing water.
- Shrinkage compensated.
- Excellent adhesion to concrete.
- Flexibility.
- Smooth produced finish.
- Low permeability.
- Excellent resistance to freeze / thaw cycles and carbonation.
- Reduces ingress of water borne salts such as chlorides and atmospheric chemical attack.
- Subsequent paint coats can be applied with greater economy.

### 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 high pressure water jetting.

### Mixing:

**Arina-patch CRM 141** is formulated to give an easily mixed material. For full bag mixing, a portable electric mixer, or a hand held electric drill fitted to the suitable paddle can be used. Over mixing should be avoided. When mixing 25 Kg. bag, pour 4.5 to 6.25 liters water in the mixing vessel and commence mixing. Add the powder to the water whilst mixing. Add water as required to achieve the desired consistency.



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**Application method:**

*Arina-patch CRM 141* should be applied to whole area with minimum trowelling. Leave for a short period of time before final trowelling. Finishing may be aided by spraying a small amount of water onto the surface by a paint brush before final trowelling.

**Curing:**

Even though the product is specially formulated to prevent shrinkage and cracking. Good curing practice is essential for first 24 hours after application, then leaving product to dry. Particular care is required in hot and windy conditions.

**Material consumption:**

Approximately 1.350 kg/ m<sup>2</sup> for 1 mm layer thickness.

**Limitations:**

Do not apply *Arina-patch CRM 141* 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 washed with water after completion of each job or at break time. Cured material can only be removed mechanically.

**Storage / Shelf life:**

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

**Packaging:**

*Arina-patch CRM 141* is available in 20 or 25 Kg. bags.

**Safety precautions:**

Like all cement based materials, this product may cause irritation. Use personal safety devices such as gloves and goggles. If contacted with eyes or mucous membrane, wash immediately with plenty of water and seek medical attention.