

# ARMORPATCH 100

## RESURFACE WORN, OLD AND SPALLED CONCRETE

### Product Description:

**ARMORPATCH 100** is a water repellent, corrosion inhibiting, polymer modified shrinkage compensated, fiber reinforced, rapid setting, high strength mortar specially formulated for structural concrete repairs in vertical and horizontal surfaces. **ARMORPATCH 100** has impressive water repellent and waterproofing properties and therefore suitable for areas requiring waterproofing protection.

- Interior and exterior
- Leveling and repair of horizontal concrete surfaces
- Structural repairs
- Parking & bridge decks
- Industrial floors

### Typical Applications:

**ARMORPATCH** can be used for all structural concrete repairs such as:

- Interior and exterior concrete surfaces
- Repair of horizontal and vertical surfaces
- Repair concrete sidewalks, concrete spalling
- Industrial floors
- Parking lots and bridge decks

### Advantages/Benefits:

- Water repellent and waterproof
- Recommended for areas requiring moisture remediation
- Aesthetically nice self leveling and smooth finish
- Fiber reinforced to eliminate crack and increase strength
- Good corrosion inhibition property, therefore protect reinforcements
- Minimal shrinkage and outstanding resistance to crack
- Excellent bond strength
- High abrasion resistance

### Surface Preparation:

Prepare concrete substrate in accordance with International Concrete Repair Institute (ICRI) Technical Guideline. Remove all unsound concrete and provide a profiled, porous surface. Substrate must be structurally sound, dust-free, and free of grease, oil, dirt, curing compounds, release agents, or any other surface or penetrated contaminants that will adversely affect bond. Pressure wash the surface

with a commercial pressure washer (3000 psi, 4 GPM) (21MPa, 0.25 L/s) and allow to fully dry before application

**PRIMING:** in most instances priming will not be needed but for vertical surfaces and very porous concrete Apply one coat of **ARMORPRIME 400** acrylic primer to allow for good bonding and adhesive purpose.

#### Application Instruction:

**MIXING:** Pour 3.3 to 3.8litres of water into a clean plastic or metal bucket , pour 70% of **ARMORPATCH 100** into the clean bucket of water, then mix with a power mixer at 400 RPM, after two minutes of mixing pour the rest of the material and mix until full homogeneity is achieved

#### Application and Installation:

Pour the material on the area to be resurfaced using a hand trowel or spray gun ,because of the self leveling property of **ARMORPATCH 100** the material can easily be finished as desired, using either a trowel or a broom. The level of thickness will also be determined by the application need, but should be achieved in one application; the mixed material can be applied at a thickness between 3mm and 20 mm. If the mix hardens, it should be disposed, please do not attempt to remix or add water to hardened mix.

#### Specification :

**ARMORPATCH 100** should be specified for all concrete surfaces requiring repairs and corrosion inhibition.

AMORPATCH 100 is abrasion resistant and restore concrete surface to an aesthetically fine finish.

#### Technical Data:

Compressive Strength ASTM C109	
1 day	13.8Mpa
7 days	20.7Mpa
28 days	34.5Mpa

#### Coverage per 20kg:

Coverage at 1/16" (0.16cm) is approximately 8m<sup>2</sup>(90ft<sup>2</sup>)

#### Cleaning and Health:

Remove the excess mortar on tools with copious amount of water; if already dry you can remove through mechanical means. Also prolonged contact with skin may occur as it is the case with all cementitious based material, therefore safety gloves and glasses should be used when working.

## Packaging and Shelf Life:

**ARMORPATCH 100** are packed in 20 kg and 25kg bags .Store in a cold dry place. With proper storage material can be stored and used within 12 months.



**ARMORSIL MANUFACTURING INCORPORATION**

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