

PIOREP PATCH

High performance & strength, polymer modified, fibered cement-based patching mortar

DESCRIPTION

PIOREP PATCH is a polymer modified & fibered cement-based repairing mortar which contains silica fume complying with ASTM C1240. It has been designed to provide excellent shrinkage control, flexural strength, and crack bridging properties. **PIOREP PATCH** obtains low permeability and good abrasion resistance, requires only the addition of water to produce non-shrink patching mortar, it can be applied to thickness up to 30 mm vertically and 35 mm horizontally.

USAGES

- Vertical, horizontal and overhead structural repair
- Filling of voids and cavities
- Reinstating column edges
- Filling tie rod holes
- Exterior and interior repair
- New and old structural repair
- Applied in multiple layers if protection of steel reinforcement is required

ADVANTAGES

- Requires only addition of water on site at application time
- Non-oxidized, non-shrink, non-sag, chloride & nitrate free, & fiber reinforced, contains micro silica to enhance strength and durability
- Adjustable consistency
- Minimizes chemical attack over concrete
- Extremely low permeability ensuring durability
- Non-toxic and does not contain any harmful ingredient
- Can be applied vertically and horizontally and overhead surfaces
- High bond strength to concrete and steel
- Excellent abrasion resistance
- Formulated for the Middle East climate

TECHNICAL DATA

PIOREP PATCH	Typical values
Compressive Strength (ASTM C109) day 28	45 ± 5 N/mm ²
Flexural Strength (ASTM C348)	4.5 ± 0.25 N/mm ²
Wet Density	2115 kg/m ³
Thickness Range	1 – 3 cm
Pot Life @25°C	30 ± 3
Setting Time (I-F)	3.5 – 7 hours
Shear Bond to Concrete (BS 6319)	25 ± 1 N/mm ²

USAGE INSTRUCTIONS

1. Surface preparation

All substrates shall be sound, clean, free from dust, grease, oil and dirt, the concrete substrates shall be saturated with water prior to application.

2. Mixing

PIOREP PATCH shall be thoroughly mixed using mechanical mixing procedures, mechanical mixing using spiral paddle in a slow speed (400-500 rpm) heavy duty drill is recommended.

Put 4.25-4.75 liters of clean water -this amount is for full 25kg bag of **PIOREP PATCH** in the mixing vessel and start mixing while adding the powder gradually and continue mixing till homogenous free from lumps mortar is obtained.

ENEBOND ACR should be added to the mixing water for special application to provide more physical and mechanical properties.

STANDARDS

PIOREP PATCH is formulated to comply with all requirements of ASTM C-928.

PIOREP PATCH	Liters
Water/ 25 kg bag	4.25 – 4.75
Yield	17.5

3. Application

Apply the mixed materials during the open time onto the required area of patching by gloved hands or a trowel, Mixed mortar should be applied using firm pressure to fully compact the mortar and ensure good adhesion on substrate, finishing and leveling should be carried out initially by wooden or plastic float, and for more thicknesses, apply second layer in 24 hours on a roughened surface (mechanical key).

4. Curing

PIOREP-PATCH is a cement-based material, that should be cured properly by spraying water for 3 days.

Using **ENECURE WB** curing compound is recommended.

PACKAGING

PIOREP PATCH is supplied in 25 kg bags.

HEALTH & SAFETY

PIOREP PATCH is non-toxic and non-hazardous, if material comes in contact with skin; cleaning with water and soap is recommended.

For Ecology: Do not dispose directly to water or soil, re-use it if possible or mix with water and wait until it hardens then bury it in landfill in accordance with national regulation.

STORAGE & SHELF LIFE

PIOREP PATCH shall be stored in normal conditions away from extreme temperatures, and any source of moisture. Shelf – life is 12-months.

TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation. Please contact us via our website arkaz.com

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