

## VARAMORTAR PE POLYESTER RESIN REPAIR MORTAR

### DESCRIPTION

**VARAMORTAR PE** is a blend of aggregates bonded together with polyester resin, designed for speedy and permanent repairs to concrete. The mixed material is applied to a suitably prepared surface and quickly cures to form an impermeable repair unaffected by most forms of chemical attack. It is supplied as a two pack material in pre-weighed quantities ready for on-site mixing and use.

### USES

For speedy and permanent repairs to concrete structures, where strength, impermeability to water and resistance to aggressive chemicals is essential. Emergency repairs to concrete structures, concrete pipes, industrial floors in plating shops, chemical handling and process areas. It is suitable for use in marine environments.

### ADVANTAGES

**Speed:** Early development of strength and hardness.

**Quality:** Pre weighed quality controlled materials.

**Chemical Resistance:** Resistant to a wide range of acids, alkalies and industrial chemicals.

**Strong & Permanent:** Twice as strong as typical concrete. Good resistance to abrasion and impact.

**Water sensitivity:** It can be applied to wet surfaces also cures under damp surface conditions. The cured surface is impermeable to water.

### TYPICAL PROPERTIES

**Pot life:** 30 minutes at 25° C – pouring consistency  
20 minutes at 25° C.—mortar consistency

**Initial Hardness:** 2 hours. @ 25 deg c

**Full Cure:** 7 days. Below 20° C the curing time will be increased.

**Minimum Application Temperature:** 5° C.

**Density:** Typically 1925 kg/M<sup>3</sup>.

### MECHANICAL CHARACTERISTICS

(Mortar consistency)

**Compressive Strength:** 2 hours – 60 N/ sq.mm  
24 hours – 85 N/ sq.mm  
7 days --- 95 N/ sq.mm

**Bond strength:** Direct pull off Tests reveals failure in concrete in both cases of application on wet as well as dry concrete. Thereby demonstrating excellent bonding characteristics.

### INSTRUCTION FOR USE

**Surface Preparation:** All grease, oil, chemical contamination, dust, laitance and loose concrete must be removed by scabbling or light bush hammering to provide a sound substrate.

**Mixing:** Mechanical mixing is not necessary for small quantities. The total base resin and catalysed filler should be thoroughly mixed to the desired consistency . As a guide line

**Pouring consistency** – 100gms Filler with 50 gms base resin

**Mortar Consistency:** 100 gms Filler with 25 gms base resin

**Application:** The mixed material should be applied with a steel trowel for mortar consistency and pouring place for pouring consistency. Press firmly into cracks to ensure positive adhesion. In vertical applications, the material should be "built-up" to a maximum thickness of 12mm. But in horizontal application the maximum thickness can be increased by 20 mm in small areas where local mechanical support exists. When material is used pouring consistency a surface may be sprinkled with catalyzed filler and finished with trowel this will ensure smooth tack free surface.

## PACKAGING & YIELD

**VARAMORTAR PE** is available in 12 x 1 kg packs for the catalyzed filler in a carton and Base resin is available in 12 x 250 gm packs in a carton .The yield will be 7.8 liters per set of two cartons.

## PRECAUTIONS

**Cleaning:** Spillages should be absorbed with sand or earth etc. and disposed in accordance with local regulations. Clean tools and equipment with solvents immediately after use.

**Storage :** Store in dry conditions upto 25° C. Shelf life is 6 months.

## HEALTH AND SAFETY

**VARAMORTAR PE** should not come in contact with skin and eyes or be swallowed. Avoid prolonged inhalation of vapours. Some people are sensitive to epoxy resins, therefore, protective gloves, goggles and barrier cream should be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus must be used.

If mixed resin comes in contact with skin, it must be removed before hardening with a resin removing cream, followed by washing with soap and plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.