

# QUANTOM

Structural Systems

QUANTOM® EPR 300



QUANTOM® EPR 300 is a 2-component, solvent free, moisture tolerant, and non sagging epoxy paste, QUANTOM® EPR 300 complies with ASTM C880.

#### WHERE TO USE

QUANTOM® EPR 300 is a general purpose epoxy paste and can be used in the following applications:

- Moisture insulation of concrete surface
- Bonding natural stone segments
- Treatment of natural stone Porosity
- Installing natural stone on Steel, Aluminium and other metallic substrates
- Installing tiles and ceramics on all types of substrates
- Acid resistance tile fixing
- Installing Gypsum Boards on dry wall steel substrates (stud and runner)
- Installing construction objects on steel, concrete, masonry, wood, stone, FCB, etc.

#### ADVANTAGES

QUANTOM® EPR 300 is an extremely versatile product that offers many advantages to the user:

- Excellent adhesion to concrete, natural stone, steel and most construction materials
- Tolerant of moisture before, during, and after curing
- Excellent early and final mechanical strengths
- Excellent chemical resistance
- Impact, shock and acid resistant
- Colour coded components to ensure proper mixing control
- Good wetting properties, no need to primer or bonding agent on dry substrates
- Easy to use and low odour
- Suitable for both, dry and damp surfaces
- Non sagging and no flow material, even at high temperatures
- Hardens without shrinkage
- Can be drilled and grinded when cured
- Will not corrode reinforcement
- Suitable for use in vertical and horizontal applications

#### HOW TO USE

Surface preparation

substrate must be sound and free of loose particles. Remove dust, laitance, oil, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials, and other bond inhibiting materials from the surface. Surface can be prepared by blasting methods, grinding or chipping. Substrate must be dry with no standing water.

## TECHNICAL INFORMATION (EN 196)

Description	Value
Colour	Clear
Density (at 25 °C)	1.15kg/l (mixed)
Bonding Strength	> 3.5 MPa (Concrete failed)
Compressive Strength	70MPa (7 days) at 35 °C
Flexural Strength	> 20MPa
Service Temperature	-35 to +65 °C
Full Cured	After 7 days (at 25 °C)
Working Time / Pot Life	60 min. (25 °C)

**Mixing**

Mix each component separately. Add component "B" to Component "A" and mix them thoroughly using a low speed drill (max. 300 rpm) and suitable paddle for at least 3 minutes or until all striations have disappeared and a uniform colour is obtained. For partial mixing, proportion 1 part of component "B" to 3 parts of component "A" by weight or volume into a clean pail. Mix only that quantity which can be used within its pot life.

**Priming**

Dry and moist surfaces require no primer or bonding agent.

**Material consumption**

Approximately 0.4 to 0.5 Kg/M2 for insulation of normal substrates.

**Application**

Apply the mixed resin onto the concrete surface using a trowel, brush or spatula. Apply first layer and let the concrete substrate to saturate completely. Apply the second layer afterwards if necessary.

Do not apply QUANTOM® EPR 300 at temperatures below 5 °C.

Do not thin QUANTOM® EPR 300 by solvent. Solvent will prevent proper cure.

Do not load the installed objects before curing time.

**Storage / Shelf life**

Store out of direct sunlight, and protected from extreme heat and cold. The shelf life for originally unopened package is 24 months from date of production.

**Delivery**

QUANTOM® EPR 300 is available in 4.00 kg and 10.00 kg pails.

**Safety precautions**

Product may cause skin irritation. Wear gloves and goggles. In contact with eyes or mucous membrane, flush immediately with plenty of warm water and seek medical attention without delay.