MASTERING TECHNOLOGY AND PRACTICALITY

an ARDEXGROUP Brand

# ST-PMM25

## Polymer Modified Mortar

**Easy for use by just mixing with water**

**High adhesion strength to substrate concrete**

**Good compatibility with old concrete**

**Chloride ion content below standard specification**

**Shrinkage compensated thus reducing risk of shrinkage cracks**

**Can be applied by trowel, gloved hand or spray machine**

an ARDEXGROUP Company

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# ST-PMM25

## Polymer Modified Mortar

### PRODUCT DESCRIPTION

ST-PMM25 is a grade 25 cementitious pre-bagged high quality polymer modified mortar with enhanced adhesive strength and compressive strength for spalling repair and patching up work of concrete.

ST-PMM25 can be applied either by hand or by spray to repair concrete on vertical surfaces and is also suited to repair soffits and other overhead repair work. ST-PMM25 can be applied in a single layer with thickness up to 60 mm in vertical locations and up to 40 mm in one layer at overhead locations.

### AREAS OF APPLICATION

- Spalling repair
- Patch repair for concrete
- Make good honeycombs
- Reinstatement of large concrete areas

### SUBSTRATE PREPARATION

The substrate must be clean, structural sound, free of loose particles, contaminations, grease and any other unwanted contaminants. All existing reinforcement shall be cleaned, and all rust should be removed.

Excessively corroded steel reinforcement must be replaced. Exposed sections of retained reinforcement must be thoroughly cleaned, with all rust removed, and treated with anti-corrosion protection (e.g., applying a primer mixture of ST-BCL and cement).

The perimeter of the concrete repair area must be saw-cut to a depth of 10mm below the concrete surface. If the concrete substrate to be repaired is too smooth, surface treatment (roughening) must be performed to create an ideal bonding surface for the repair mortar application.

All honeycombed concrete must be chiselled out and completely cleaned until solid concrete is exposed before repair work begins.

### INSTALLATION

1. Mix ST-PMM25 with the recommended amount of water until a uniform consistency is achieved.
2. Apply the mixed ST-PMM25 using a trowel onto the prepared (pre-wetted) concrete substrate that requires repair.
3. Smooth and finish the surface with a trowel as needed.
4. For detailed application method, please refer to the manufacturer's method statement.

### CURING

Natural air curing is normally adequate for ST-PMM25. Under exterior environment or unfavourable conditions, water curing is recommended to ensure ST-PMM25 achieves the best performance.

### PACKAGE

25 kg bag

### SHELF LIFE

ST-PMM25 has a shelf life of 12 months if well-kept in dry condition on lifted floor.

### HEALTH & SAFETY

A qualified mask or equivalent personal protective equipment must be worn when handling this product. This product is non-toxic and does not contain harmful substances but may cause allergies or irritation to eyes and skin. If it accidentally comes into contact with eyes, rinse immediately with plenty of water and seek for medication.

### REFERENCE STANDARDS

- British Standard
  BS 6319
- Hong Kong Standard
  HKHA MTS Spec. Part D
  Product Certification
  PCCS-RM Class 25
- Chinese Standard
  JC/T 2381

# ST-PMM25

## Polymer Modified Mortar

### PRODUCT INFORMATION

| | |
|---|---|
| Colour | Grey |
| Maximum Grain Size | 2.0 mm |
| Application Thickness | 10 – 60mm / layer |
| Yield | ~ 1.5kg/$m^2$/mm |
| Water Demand | ~ 4.5 – 5L/ 25 kg bag |
| Pot Life | ~ 1 hour |

### PRODUCT PERFORMANCE

| Performance | Test Standard | Result |
|---|---|---|
| Compressive Strength at 28 days | PCCS-RM TM 1 (HKHA MTS Spec. Part D Cl. 2.1.1 & BS 6319-2) | 20 - 40 MPa |
| Tensile Strength at 7 days | PCCS-RM TM 2 (HKHA MTS Spec. Part D Cl. 2.1.3 & BS 6319-7) | ≥ 1.5 MPa |
| Modulus of Elasticity at 28 days | PCCS-RM TM 3 (HKHA MTS Spec. Part D Cl. 2.1.4 & BS 6319-6) | 9 - 15 GPa |
| Bond Strength at 7 days | PCCS-RM TM 4 (HKHA MTS Spec. Part D Cl. 2.1.14 & BS 6319-7) | ≥ 1.5 MPa |
| Cracking in Coutinho Ring Test at 28 days | PCCS-RM TM 5 (HKHA MTS Spec. Part D Cl. 2.1.6 & BS 6319-6) | No Crack |
| Figg Air Permeability | PCCS-RM TM 6 (HKHA MTS Spec. Part D Cl. 2.1.7) | ≥ 150 seconds |

* Note: The test standards for the product performance stated above refer to laboratory test only.