

Isocrete PM

Product sheet

Product Description

Isocrete PM is a single-component, quick-setting, low shrinkage pumpable mortar. Unique polymers ensure that the placed mortar maintains contact within the filled section. **Isocrete PM** requires only the addition of clean water to produce an easily pumped mortar.

Primary Applications

- Structural grouting of gaps in precast units and high strength pointing.

Features / Benefits

- Pre-blended to overcome site batching variations
- Fast installation rate
- Hand or pump applied
- No priming required
- Rapid strength gain

Fire

Isocrete PM is non-flammable.

Yield

Each 25 kg bag of **Isocrete PM** will yield approximately 13.75 litres of mixed material with 4.0 Litres of water

Storage & Shelf Life

Isocrete PM will have a storage life of 12 months in unopened bags when kept in dry conditions at a temperature between 5°C and 45°C.

Storage at higher temperatures or high humidity may reduce shelf life.

Technical Information

Typical properties @ 20°C at a water / powder ratio of 0.165.

Performance tests	Result
Compressive Strength EN 12190	1 day > 20 MPa 7 days > 40 MPa 28 days > 90 MPa
Water Content (Per Bag)	4 – 4.25 litres
Minimum Application Thickness	5 mm
Fresh Wet Density	2,100
Maximum Grain Size	<1 mm
Supply	25 kg bags
Yield	Approx. 13.75 litres
Flexural Strength EN 12190	>7 MPa
Chloride ion content EN 1015-17	≤ 0.05%

Directions for Use

Surface Preparation: Contact surfaces should be sound and clean. Remove all loose material and any oily deposits.

Priming: The prepared surfaces should be pre-dampened then any standing water removed before placing the mixed material.

Mixing: Care should be taken to ensure **Isocrete PM** is thoroughly mixed. When pump applying a forced action mixer sited over or adjacent to the pump chamber is recommended. For hand applied applications a forced action mixer is required. For a single bag the product can be mixed in a drum with a drill and paddle type mixer using a slow speed (400 – 500 rpm) heavy duty drill. Part bags may be mixed but careful measurement of the mixing water is essential. In all applications the powder is always

to be added to the water. 4.0 -4.25 litres of clean drinking water should be added to the mixing vessel for each bag of powder.

The product should be mixed for a minimum of 3 minutes and a maximum of 5 minutes after adding all powder. To obtain the correct handling characteristics and product performance the mixing instructions should be followed.

Placing: Pump application by use of rotor stator or worm pump capable of mixing this particle size, using 25 mm ID hosing. Hand application by pointing gun or trowel is also possible. The **Isocrete PM** is pumped into place at a low pressure. Ensure complete filling of the gap and then finish the exposed surface with a dampened steel trowel.

Limitations: **Isocrete PM** may be applied at temperatures between 3°C and 45°C. For application at temperatures outside this range contact the Technical Service Department.

Curing: Curing of exposed surfaces should be undertaken in accordance with good concrete practice. Suitable methods of curing include water spray, polythene sheeting and spray applied concrete curing membrane such as **Kureseal**.

Health & Safety

Isocrete PM is alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. **For full health and safety data please consult the Product Safety Data Sheet.**

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Any suggested practices or installation specifications for the composite floor or wall system (as opposed to individual product performance specifications) included