

ISOCRETE POLYMER 70

DESCRIPTION

A terpolymer modified PVA bonding agent and screed additive.

USES

Can be used neat or diluted for priming and bonding purposes, or as an additive in screed mixes of cement and sand. In particular, it is used with Isocrete screed systems such as K-Screed, Isothin, Isogran and Screedfast.

An alternative bonding system to Polymer 70 is Isocrete M-Bond. (This solvent free epoxy based product imparts a positive bond for cementitious screeds laid over substrates such as metal or terrazzo. Being a water-free system, it gives quicker drying times. See separate data sheet for Isocrete M-Bond and M-Bond Extra combined dpm and bonding system).

BENEFITS

- ☺ *Provides a high degree of bond for screeds laid on prepared concrete.*
- ☺ *Greater resistance to attack by moisture after hardening (compared with standard PVA bonding agents).*
- ☺ *Increased mechanical strength.*
- ☺ *Improved abrasion resistance.*
- ☺ *Reduced cracking.*

PROJECT REFERENCES

Habitat, Jubilee Line Stations, Deeside Power Station, Glaxochem, Burtons Biscuits.

MODEL SPECIFICATION FOR ISOCRETE POLYMER 70 BONDING SYSTEM

Screed to be bonded with Isocrete Polymer 70 primer and grout to a suitable sound shot blasted or scabbled and vacuum cleaned in situ concrete base in accordance with the instructions of Isocrete Commercial Flooring.

TYPICAL PHYSICAL PROPERTIES

Colour	White liquid emulsion
Density	1080 kg/m ³
pH	4.5 to 7.5
Solids	50%

Minimum film forming temperature: approx. 5°C

Drying time (as primer): >3 hours
(dependent upon ambient conditions & substrate condition)

SURFACE PREPARATION

For a bonded screed construction, totally enclosed shot blasting or scabbling.

All residues must be removed to provide a dry, dust free, open textured surface.

AMBIENT CONDITIONS

Internal air and floor temperatures must exceed +5°C.

PRIMING

Mix one part of Isocrete Polymer 70 with 3 parts water. Apply evenly over the surface by brush. Avoid any ponding to prevent a skin forming on drying.

For priming small areas of exposed metal, the Isocrete Polymer 70 is to be used undiluted and applied by paint brush. (Larger areas of metal, including steel tray stair treads, require Isocrete M-Bond as the bonding agent).

Allow primer to dry, typically by leaving to dry overnight. Overlaying may be possible after 3 hours in good drying conditions.

GROUTING

Mix cement with diluted Isocrete Polymer 70 (1 part of Isocrete Polymer 70 with 3 parts of water) to a 'just flowing' consistency.

Brush the cement grout well onto the primed concrete surface and leave at 1-3mm thick.

The screed must be laid onto the grout while it is still wet.

COVERAGE

Coverage will depend on the concrete surface and application.

A rough guide would be:

Priming: Approx 0.1kg/m² of Isocrete Polymer 70.

Grouting: Approx 0.2kg/m² of Isocrete Polymer 70.

PROTECTION ON COMPLETION

Ensure adequate protection from other construction trades immediately after installation and during the curing period.

PACKAGING

Available in nominal 25kg drums.

STORAGE & SHELF LIFE

Stored unopened in dry conditions, protected from frost and excessive heat, shelf life will be 12 months.

ISOCRETE PROPRIETARY SCREEDS

Where Isocrete Polymer 70 is used in conjunction with Isocrete proprietary screeds (K-Screed, Fast-K screed, Screedfast, Isogran, Isothin etc), whether as a primer or as a screed additive, please refer to the relevant screed product data sheet.

HEALTH & SAFETY

Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets.

FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements.

Isocrete have a wealth of technical & practical experience built up over many years in our pursuit of excellence in flooring and concrete

technology. Clients are welcome to call our Technical Desk or visit our Technology Centre in Sandbach.

IMPORTANT NOTE

Isocrete's products are guaranteed against defective materials and manufacture & are sold subject to its standard Terms & Conditions of Sale, copies of which may be obtained on request. Whilst Isocrete endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, it cannot - because it has no direct or continuous control over where or how its products are applied - accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendations or information given by it.

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