Flowcrete
for the world at your feet

in partnership with
Cemfloor
By McGRATHS CONG

Screeds

Flowing K Standard

Isocrete Flowing K Standard is a specifically formulated self-levelling cementitious floor screed. It can be applied to a wide range of substrates.

Isocrete Flowing K is a mixture of Isocrete K additives, Cemfloor binder, cement, water, and a suitable sand. It is a high-performance screed which complies with EN 13813:2002 'Screed Material for Floor Screeds'. Isocrete Flowing K is suitable for most applications and can be utilised in bonded, unbonded or floating screed construction. Its mix designs can be amended to suit specific applications depending on floor finish and strength requirements. It is a requirement of the warranty that the mix design, the sand and the cement is approved by Tremco CPG Technical Services prior to installation by the contractor.

Rapid Installation:
Up to 1000 m² per day at nominal 50 mm thick and foot traffic in 24 - 48 hours.

Laitance Free:
No mechanical abrasion required.

Wet Area Use:
Can be applied in internal wet areas.

CE 26 EN 13813

FRESH DENSITY		
2,100 - 2,200 kg/m³		
SHRINKAGE (28 DAYS)		
<0.05%		
BRE TEST CATEGORY		
BS 8204-1	Category A	
COMPRESSIVE STRENGTH		
BS EN 13892-2	>25 N/mm² >30 N/mm²	C25 C30
FLEXURAL STRENGTH		
BS EN 13892-2	>5 N/mm² >6 N/mm²	F5 F6
SURFACE FLATNESS		
Min SR2		
MAXIMUM BAY SIZES		
150 m² Not suitable for heated floors. Please see Isocrete Flowing K UFH.		

SPEED OF CURE*	10°C	20°C
Working Time	1-2 hour	1 hour
Light Foot Traffic	24 hours	48 hours
Full Traffic	5 days	7 days
Light scaffolding & small MEWP's	1 week	2 weeks
Larger MEWP's**	2 weeks	3 weeks
Curing	Not generally required	

*These figures are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity. Please consult with Tremco CPG UK technical services to discuss mix designs and formulation mix.
**Spreader plates may be required for large MEWP's and scaffolding.

Model Specification

System	Isocrete Flowing K Standard screed
Bonded	Minimum 20 mm Isocrete Flowing K screed to be supplied and laid on an uncontaminated, shot blasted or scabbled and vacuum cleaned in situ concrete base, bonded with Isocrete primer or Hydraseal DPM and grout (or bonded with M-Bond epoxy bonding agent or bonded with Isocrete M-Bond Extra combined DPM and bonding agent).
Unbonded	Minimum 30 mm Isocrete Flowing K screed Reinforcement is not required. To be supplied and laid on a sound and clean proprietary damp proof membrane.
Floating	Minimum 40 mm Isocrete Flowing K screed, laid on insulation.

The Preparatory work and application in accordance with manufacturer's instructions. Model specifications are also available for various other screed configurations. Please consult Tremco CPG UK technical services.

Substrate Requirements

Isocrete Flowing K Standard is designed for use as a bonded screed on concrete, as a floating screed over thermal or acoustic insulation or as an unbonded screed on top of a separating membrane.

Concrete or screed substrate should be a minimum of 25 N/mm^2, free from laitance, dust and other contamination. The substrate should be moisture tested in accordance with BS 8203 and free from rising damp and ground water pressure. If above 75% RH, in bonded construction, Hydraseal DPM is required, in unbonded construction, a 1200 gauge separating membrane shall be used.

BONDED	
Primer	
Isocrete Primer (dilluted 1:5) 0.06 kg/m^2 Isocrete Primer (dilluted 1:3) 0.1 kg/m^2	Hydraseal DPM 0.5 kg/m^2 for two coats Dorsilit Natural Quartz 1.0 - 1.8 mm 2 kg/m^2 (to excess)
Min screed thickness	Nominal 20 mm
UNBONDED	
DPM	Proprietary materials
Reinforcement	Not required
Min. Screed Thickness	Nominal 30 mm
FLOATING	
Insulation board/extruded polyethylene	Proprietary materials
Reinforcement	Not required
Min. Screed Thickness	Nominal 40 mm

Detailed application instructions are available upon request.

If smoothing compound is required	
Primer	Isocrete Primer @ 0.05 kg/m^2
Smoothing Compound	Isocrete 1500 (3 mm) @ 5.1 kg/m^2

Mix Design

Trials should always be carried out to optimise the mix design before work commences. The sand used sould be of an approved quality and grading. The mix proportions depend on the sand available.

Tremco CPG UK Ltd products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request. Any suggested practices or installation specifications for the composite floor or wall system (as opposed to individual product performance specifications) included in this communication (or any other) from Tremco CPG UK Ltd constitute potential options only and do not constitute nor replace professional advice in such regard. Tremco CPG UK Ltd recommends any customer seek independent advice from a qualified consultant prior to reaching any decision on design, installation or otherwise.

System Datasheet written for Tremco CPG UK Ltd. Please consult Technical Team in your own country region for specific details. [11/02/26, 01 UK]

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Application

Isocrete Flowing K Standard screed should be used in accordance with BS 8204-7:2003 'Code of Practice for Pumpable Self-Smoothing Screeds'. The freshly poured screed will need to be levelled using a dappling bar, ensuring to dapple the surface in two passes at 90°.

When Isocrete Flowing K Standard screed is installed as per installation guidelines in a sealed/weather tight area it will not require any curing agent sprayed onto its surface. If the screed will be exposed to any wind/drafts or excessive sunlight, then Isocrete Kureseal may be sprayed onto the screed surface. Please contact our Technical Team for further guidance.

Curing

Following installation, the screed should not be subjected to severe draughts, direct sunlight or heating for the first 24 - 48 hours. The location in which the screed has been placed should therefore be sealed during this time. The location should be ventilated after 24 - 48 hours by opening windows and doors during the day to aid the drying process.

Floor Coverings

Isocrete Flowing K Standard screed is compatible with most floor coverings, and all cementitious adhesives including fast track systems. The screeds possessive moisture content should be measured before placing floor coverings to ensure that it is adequately dried.

Isocrete Flowing K Standard screed will not require any sanding to remove laitance. It is however recommended that the surface of the screed be lightly abraded to clean and remove any building residue to ensure that there is a good key to receive subsequent floor coverings.

Installation Service

The installation should be carried out by a licensed contractor with a documented quality assurance scheme. For details of our licensed contractors, contact your local Tremco CPG.

Environmental Considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless surface reduce the need for repairs and maintenance. Environmental and health considerations are controlled during manufacture and application of the products by Tremco CPG staff and fully trained application teams.

Important Notes

Flowcrete products are guaranteed against defective materials and manufacture and are sold subject to our standard 'Warranty, Terms and Conditions of Sale', copies of which can be obtained on request. Warranty does not cover suitability, fit for purpose or any consequential or related damages. Please review warranty in detail before installing the products.

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