

## Ultimate K Screed (Liquid Additive)

An early drying, rapid strength, semidry cementitious screed incorporating proprietary additives.

Supplied as a proprietary liquid screed additive that is mixed with Portland cement, fibre (if required), graded aggregates and water.

Ultimate K Screed is suitable for most applications and can be utilised in bonded, unbonded or floating screed construction.

Ultimate K Screed 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 sand and cement is tested for approval by Tremco CPG Technical Services prior to installation by the contractor.



### Rapid Installation & Cure:

Delivers a screed that can be overlaid quickly



### Rapid Initial Strength:

High early and ultimate strength



### Underfloor Heating:

Incorporated with Underfloor Heating Systems thickness as low as 51mm

DENSITY		
2,000 - 2,200 kg/m <sup>3</sup>		
BRE TEST CATEGORY		
BS 8204-1	Category A	
COMPRESSIVE STRENGTH (28DAYS)*		
BS EN 13892-2	Standard >40N/mm <sup>2</sup> Heavy Duty >50N/mm <sup>2</sup>	CEM I, 52.5N
	Standard >30N/mm <sup>2</sup> Heavy Duty >35N/mm <sup>2</sup>	CEM II, 42.5N
FLEXURAL STRENGTH (28DAYS)*		
BS EN 13892-2	Standard >6N/mm <sup>2</sup> Heavy Duty >8N/mm <sup>2</sup>	CEM I, 52.5N
	Standard >5N/mm <sup>2</sup> Heavy Duty >6N/mm <sup>2</sup>	CEM II, 42.5N

SPEED OF CURE*	10°C	20°C
Working Time	1-2 hrs.	1 hr.
Light Foot Traffic	36 hrs.	24 hrs.
Full Traffic**	3 days	2 days
Curing	Kureseal or Polythene	
Drying time to receive finishes (BS 8203) 1 week per 75mm in good drying conditions (20°C, 50% RH, good ventilation).		

\*These figures are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity. BS 197-1 Type CEM I, 52.5N and CEM II, 42.5N cements and laboratory graded sand 0/4 mm (MP) category 1 to BS 13139:2002. Please consult with Tremco CPG UK technical services to discuss mix designs and formulation mix. The stated physical properties may not be achieved for some grades of cements or sands, which is why testing is advised.

\*\*Please note that Isocrete Ultimate K is not a wearing screed and is not suitable for regular trafficking or point loading of any kind.

### Ultimate K-Screed

Isocrete Ultimate K-Screed is suitable for most commercial applications. For industrial screeds, please consult Tremco CPG UK technical services for appropriate screed specifications.

## Residual Moisture Content

Before laying a floor finish the moisture content of the screed should be checked by the main contractor. BS 8203 recommends a maximum of 75% RH prior to the installation of moisture sensitive finishes. Moisture in the base will impede the drying of the screed. For unbonded and floating screeds, a DPM may be specified between the base slab and the screed. For bonded screeds, Isocrete M-Bond Extra epoxy resin combined DPM and bonding agent may be used.

## Model Specification

System	Isocrete Ultimate K Screed
<b>Bonded</b>	__mm Isocrete Ultimate K-Screed to be supplied and laid on an uncontaminated, shot blasted or scabbled and vacuum cleaned in situ concrete base, bonded with Isocrete Polymer 70 primer and grout (or bonded with M-Bond epoxy bonding agent or bonded with Isocrete M-Bond Extra combined DPM and bonding agent).
<b>Unbonded</b>	__mm Isocrete Ultimate K-Screed Reinforcement is not required unless the screed contains underfloor heating. To be supplied and laid on a sound and clean proprietary damp proof membrane.
<b>Floating</b>	__mm Isocrete Ultimate K-Screed, reinforced throughout with Isocrete PP Fibres (if the screed contains underfloor heating) laid on and including __mm__ insulation board.

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

## 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.

BONDED		
Primer	Polymer 70 primer @ 0.05 kg/m <sup>2</sup> Polymer 70 grout@ 0.05 kg/m <sup>2</sup>	M-Bond (M-Bond Extra) @ 0.5 kg/m <sup>2</sup> (0.9 kg/m <sup>2</sup> )
Min screed thickness	Normal 20mm Heavy Duty 25mm	Normal 15mm Heavy Duty 25mm
Curing	Kureseal or Polythene	
UNBONDED		
DPM	Proprietary materials	
Reinforcement	Not required	
Min. Screed Thickness	Normal 30mm Heavy Duty 40mm	
Curing	Kureseal or Polythene	
FLOATING		
Insulation board/extruded polyethylene	Proprietary materials	
Reinforcement	Isocrete PP Fibres for screeds containing UFH	
Min. Screed Thickness	Generally, 40mm (35mm domestic) but can be less on thin insulation. Consult Tremco CPG UK technical services.	
Curing	Kureseal or Polythene	
Isocrete Ultimate K-Screed weighs 150-165 kg/m <sup>2</sup> @ 75mm thickness.		

Detailed application instructions are available upon request.

<b>If smoothing compound is required</b>	
<b>Primer</b>	Isocrete Primer @ 0.05 kg/m <sup>2</sup>
<b>Smoothing Compound</b>	Isocrete 1500 Plus (3mm) @ 5.1 kg/m <sup>2</sup>

## Protection on Completion

Ensure the screed is not subject to draughts and strong sunlight during the first 24 hours of curing as this may lead to cracking and crazing. Owing to the higher strength of the materials, some hair-line cracking may occur especially from high stress areas such as shape change, these would not normally be detrimental to the screed or any coverings. Tape up doorways with polythene to prevent air movement. Prevent contamination by following trades e.g. plastering, including water spillage.

## 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 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.

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. [25/03/24 UK]