

## Isocrete K-Screed HDP

A semi-dry polymer modified cementitious screed incorporating proprietary additives and polymer latex.

Used to level and repair concrete or screeds to create a suitable heavy-duty screed base to receive Flowcrete's Deckshield system.



### Thickness:

Screed formulations allow for installation at low thickness.



### Durable:

Demonstrates good compressive and flexural strength.



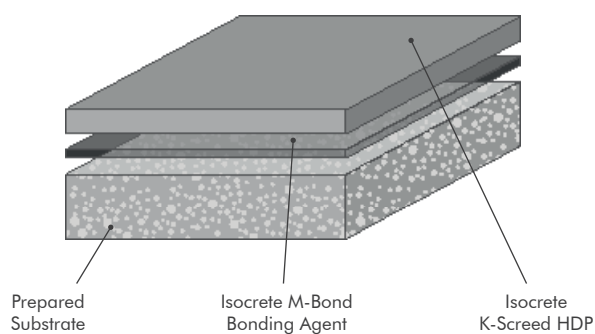
### Low Shrinkage:

Low shrinkage formulation minimises cracking.



### Resistant:

Demonstrates good resistance to abrasion.



## Technical Profile\*

| FRESH WET DENSITY               |                                  |             |
|---------------------------------|----------------------------------|-------------|
| 1700-2000 kg/m <sup>3</sup>     |                                  |             |
| COMPRESSIVE STRENGTH            |                                  |             |
| >18 N/mm <sup>2</sup> (7 days)  | >30 N/mm <sup>2</sup> (28 days)  |             |
| FLEXURAL STRENGTH               |                                  |             |
| >3 N/mm <sup>2</sup> (7 days)   | >4 N/mm <sup>2</sup> (28 days)   |             |
| BOND STRENGTH                   |                                  |             |
| >1.5 N/mm <sup>2</sup> (7 days) | >2.0 N/mm <sup>2</sup> (28 days) |             |
| SPEED OF CURE**                 | 10° C                            | 20° C       |
| Working Time                    | 2-3 hrs                          | 2 hrs       |
| Light Foot Traffic              | 48 hrs                           | 24 hrs      |
| Full Traffic                    | 7 days                           | 7 days      |
| Curing Under Polythene          | 3 days min.                      | 3 days min. |

\*The figures that follow are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

\*\*Avoid rapid curing. As soon as possible after laying, cover with polythene sheet and leave for a minimum of 72 hours.

## Mix Designs for Nominal 1:3 by Volume Batches

| MATERIALS REQUIRED (kg)  |              |               |
|--------------------------|--------------|---------------|
| Portland cement          | 25           | 50            |
| Sand                     | 80           | 160           |
| 2-5 mm Granite Chippings | 20           | 40            |
| K-Screed Additive        | 0.5 (Size 3) | 0.5 (Size 4c) |
| Isopol SBR               | 1.25         | 2.5           |
| Water (approx)           | 5.0          | 10            |
| Total                    | 132          | 263           |

Portland cement Type CEM 1 Class 52.5N to BS EN 197-1. (Other Classes of 52.5 or higher may be used but may affect working and hardening times). Sand to BS EN 13139 0/4 mm (MP) category 1, with not more than 10% passing sieve size 150 micron. Isocrete K-Screed Additive is available in 3 sizes. The amount of water added will vary with the moisture content of the sand. Sands to BS EN 13139 0/4 mm are generally suitable, but should be checked prior to use to confirm that the water required to produce a workable 'earth moist' screed gives a ratio for water:cement of approx 0.35:1 to ensure good hydration and quick drying.

## Model Specification

|        |                       |
|--------|-----------------------|
| System | Isocrete K-Screed HDP |
|--------|-----------------------|

Preparatory work and application in accordance with manufacturer's instructions. Isocrete K-Screed HDP screed to be supplied and laid bonded with Isocrete M-Bond epoxy bonding agent on a suitable shotblasted or scabbled and vacuum cleaned insitu concrete base in accordance with the instructions of Flowcrete UK Ltd by one of their approved licensees.

## Products Included In This System

|        |   |
|--------|---|
| Bonder | Isocrete M-Bond @ 0.5 kg/m <sup>2</sup><br>OR, if a DPM required:<br>Isocrete M-Bond Extra<br>@ 0.9 kg/m <sup>2</sup> |
| Screed | K-Screed HDP @ 27 kg/m <sup>2</sup> for<br>15mm<br>(Minimum thickness 15 mm)  |
| Curing | Polythene sheet   |

## Coverage

|                          |  |
|--------------------------|--|
| K-Additive Size 3 Sachet | 0.5 kg<br>Used at 1 sachet Size 3 / 25kg cement. At 15mm screed thickness, requires 0.125 kg/m <sup>2</sup>  |
| K-Additive Size 4 Sachet | 0.5 kg<br>Used at 1 sachet Size 4 / 50kg cement. At 15mm screed thickness, requires 0.0625 kg/m <sup>2</sup> |
| Isopol SBR               | Used at 1.25 kg / 25 kg cement. At 15mm screed thickness, requires 0.315 kg/m <sup>2</sup>                   |

Detailed application instructions are available upon request. A damp proof membrane is required on ground floors and may be required on new concrete slabs to seal in excess construction moisture in the base. The screed may be reinforced with Isocrete PP Fibres (see separate data sheet).

## Installation Service

The installation can be carried out by an Isocrete K-Screed licensee with a documented quality assurance scheme. Obtain details of our licensed contractors by contacting our customer service team or enquiring via our website [www.flowcrete.co.uk](http://www.flowcrete.co.uk).

## 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 Flowcrete 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.

Flowcrete's 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 Flowcrete UK Ltd constitute potential options only and do not constitute nor replace professional advice in such regard. Flowcrete 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 Flowcrete UK Ltd. Please consult Technical Team in your own country region for specific details. [25/01/21, 03 UK]