

# X-Tech SuperFlow

## Rapid set decorative screed for residential and light commercial use

### Product Description

X-Tech SuperFlow is a cement based self smoothing, decorative screeding system which is supplied in a wide range of colors and is shrinkage compensated and rapid setting. The system is designed to produce a hard wearing decorative floor surface suitable for residential and light commercial applications. It is designed for interior application only.

### Advantages

- Fast track system
- Wide range of colours and design options
- Reduced labour cost
- Easy to maintain
- Shrinkage compensated
- Durable and abrasion resistant
- Casein and protein free
- Suitable for use with roller casters
- Seamless smooth noise reducing substrate

### Specification Compliance

SCAQMD Rule 1113  
LEED NC2009 IEQ 4.2

### Laboratory Test Data

Property	Typical Results
<b>Compressive strength</b>	>25MPa at 28d
<b>Flexural strength</b>	>4MPa at 28d
<b>Relative density</b>	1.8

The above data was obtained under laboratory conditions using freshly manufactured material at a water/powder ratio of 0.23. Actual results in the field will vary as a result of different factors such as how long the product has been stored, storage conditions, temperature, actual water content, curing regime, quality of samples, compaction method and the type of equipment used for sample preparation & testing.

### Application Properties

	10C	20C	30C
<b>Working time after mixing</b>	1h 45min	1h 15min	45min
<b>Initial set</b>	2h	1h 30min	1h
<b>Light foot traffic</b>	4h	3h	2h 30min
<b>Heavy traffic</b>	30h	24h	18h
<b>Application temperature</b>	10 to 30C		
<b>Temperature of mixed material*</b>	20 to 30C		
<b>Substrate temperature</b>	10 to 30C		
<b>Application thickness</b>	8 to 15mm		

\*Temperature of the mixed material can be controlled by using warm or cold water depending on ambient conditions.

### Service Temperature Range

5°C to 80°C

### Volatile Organic Content

VOC = 0 g/L

### Colors

RAL 7032 Pebble Grey	RAL 7037 Dusty Grey
RAL 7042 Traffic Grey	RAL 7044 Silk Grey
RAL 7047 Tegrey 4	RAL 8023 Orange Brown
RAL 8052 Pale Brown	RAL 9002 Grey White
RAL 9003 Signal White	RAL 9010 White
RAL 1013 Oyster White	RAL 1014 Ivory

### Water Content

5L per 19 kg bag

### Yield & Coverage

Approximately 10.5L or 1.05m<sup>2</sup> per bag at 10mm thickness.

### Packaging

X-Tech SuperFlow - 19kg bags

### Shelf Life

When stored in dry internal conditions between 10°C and 30°C and out of direct sunlight the product has a shelf life of 6 months from date of manufacture. Never store directly on a concrete floor.

## Installation Guidelines

Cementitious based flooring should only be carried out by experienced contractors. X-Calibur provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

### Substrate Strength

Substrates that have a pull off strength of 1.5 MPa when tested to BS EN 13892-8 or ASTM D 4542 or a rebound hammer value in excess of 25 when tested to BS EN 12504-4 or ASTM C805. (Test equipment for these tests are available to purchase or rent from X-Calibur).

### Surface Preparation

Allow all new concrete work and screeds to cure for at least 6 weeks and 4 weeks respectively before application. The substrate must be structurally sound, all loose and unsound concrete should be removed and made good. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. Any screed must be fully bonded to the underlying concrete, and the substrate must be integrally sound (no crumbling, cracking, etc). The surface should be prepared by captive blasting to produce an exposed aggregate surface i.e. a ICRI CSP 5 or 6 surface profile.

### Mixing

#### X-Tech EpoxyBond LV

Add the hardener into the base and mix using a slow speed drill (350rpm) with an X-Calibur approved mixing paddle for 3 minutes, or until both components have fully dispersed and are uniform in color. Be sure to rotate the mixer throughout the drum. Mix only full packs.

#### X-Tech SuperFlow

Add X-Tech SuperFlow to water and mix for a minimum of three minutes until a lump free consistency is achieved. Use an X-Calibur approved forced action mechanical mixer.

### Priming

Prime with X-Tech EpoxyBond LV (see separate datasheet). Apply in a single coat by brush, roller or airless spray, taking care to work the mixed material well in to the substrate. Ensure a uniform coating is achieved and make sure no ponding occurs. Place underlayment, screed or repair mortar within 6h at 25C. If preferred fully blind the wet surface immediately after application with X-Tech AntiSlip Grain (M or C) and allow to cure for 24h prior to application of X-Tech SuperFlow.

## Application

Application of X-Tech SuperFlow requires a fully trained specialist contractors. Contact TAL X-Calibur for details and specialist contractors who can apply X-Tech SuperFlow.

### Traffic Times

The surface can be subjected to **light** foot traffic after 4 hours (depending on application thickness and ambient conditions). The floor can be subjected to full service conditions after approximately 30 hours (temperature dependent).

### Limitations

Do not mix by hand.

Do not part mix, use only full bags.

Do not apply in rain or wet conditions or at temperatures below 4C.

Lower temperatures produce a slower set; higher temperatures produce a faster set.

Do not expose to running water until the product is cured fully.

### Health and Safety

This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. E-mail [taltech@norcrossa.com](mailto:taltech@norcrossa.com) or call 0860 000 825 for a copy of the MSDS.

### Authorized Technical Specialist

Please note that only TAL X-Calibur Authorized Technical Specialists are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product.

### Datasheet Validity

TAL X-Calibur make modifications to its product datasheets on a continuous basis. to ensure you have the latest version, e-mail [taltech@norcrossa.com](mailto:taltech@norcrossa.com) or call 0860 000 825 to ensure you have the latest version.

### Important Notice

TAL X-Calibur believes the information on this sheet to be correct - but does not guarantee its accuracy or completeness. Conduct your own tests of this product to determine its suitability for intended use. User assumes all risks and liability during testing and use of this product. The only obligation of TAL X-Calibur shall be to replace any of this product proved to be defective due to manufacturing defects. TAL X-Calibur shall not be liable for any injury, loss or damage, direct or inconsequential, relating to the use or inability to use this product. Except as expressly provided above, all products sold and samples furnished without any warranty of merchant ability or any other warranty, express or implied.

Contact the TAL X-Calibur Technical Advice Centre on 0860 000 TAL(825), or e-mail [taltech@norcrossa.com](mailto:taltech@norcrossa.com)  
Johannesburg+27 (0)11 206 9700 Cape Town +27 (021) 386 1810 Durban +27 (031) 579 2263  
[www.x-calibur.co.za](http://www.x-calibur.co.za) [www.tal.co.za](http://www.tal.co.za)

TAL is a registered trademark of Norcros SA (PTY) Ltd and X-Calibur & X-Tech are registered trademarks of X-Calibur Chemistry Inc.  
Manufactured in South Africa under license from X-Calibur Chemistry Inc. by TAL - a division of Norcros SA (Pty) Ltd.