

Industrial grade rapid set self smoothing decorative screed

Product Description

TAL STONEFLOW is a cement based self smoothing heavy duty decorative industrial screeding system. It is shrinkage compensated and rapid setting. It is especially designed for use in industrial environments, on both new construction and renovation projects. It is designed for applications exposed to heavy traffic and abrasion, such as factories, warehouses and production areas. It is also suitable for commercial and residential applications.

Advantages

- Fast track installation
- Reduced labour cost
- Shrinkage compensated
- High strength
- Durable abrasion resistance
- Casein and protein free
- Suitable for use with roller coasters

Specification Compliance

SCAQMD Rule 1113
LEED NC2009 IEQ 4.2

Laboratory Test Data

Property	Typical Results
Compressive strength	>35MPa at 28d
Flexural strength	> 8MPa at 28d
Density	2300kg/m ³

The above data was obtained under laboratory conditions using freshly manufactured material at a water/powder ratio of 0.2. 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.

Service Temperature Range

5 to 80°C

Volatile Organic Content

VOC = <10 g/L

Application Properties

	10°C	20°C	30°C
Working time after mixing	40min	20min	10min
Initial set	2h	1h	30min
Light foot traffic	8h	3h	2h
Heavy traffic	24h	8h	4h
Application temperature	10 to 30°C		
Temperature of mixed material	20 to 30°C		
Substrate temperature	10 to 30°C		
Application thickness	15 to 50mm		

Colours

RAL 7035 Light Grey
RAL 3020 Traffic Red
RAL 7043 Dark Grey
RAL 9004 Signal Black

Product will not be an exact match to the RAL numbers above due to the nature of cement based products. A wide range of colours can be manufactured to special order. (Minimum order quantities and lead times apply to special colour orders.)

Paste Colours

Grey and White

Water Content

3.5 to 4.5liter per 25kg bag, depending on quantity of aggregate used.

Yield & Coverage

Approximately 2.3kg of mixed material / m² / mm thickness.
Paste – 30g/m² (powder)

Packaging

TAL STONEFLOW- 25kg bags
Aggregate - 50kg bags
Paste - 20kg 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

The information below is a summary intended for guidance information purposes only. Application must be carried out by a specialist installer only.

Substrate Strength

Substrates to have a pull off strength of 1.5MPa when tested to BS EN 13892-8 or ASTM D 45542 or a rebound hammer value in excess of 25 when tested to BS EN 12504-4 or ASTM C805.

Surface Preparation

Allow all new concrete work and screeds to cure for at least 6 weeks and 4 weeks respectively before proceeding. The substrate must be structurally sound. Loose or unsound concrete or screed must 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, ie a ICRI CSP 5 or 6 surface profile.

Mixing

TAL EPOXYBOND LV (See separate data sheet)
Add the hardener to the base and mix using a slow speed drill (350rpm) with an TAL approved mixing paddle for 3 minutes, or until both components have fully dispersed and the mix is uniform in colour. Be sure to rotate the mixer throughout the drum. Mix only full packs.

TAL StoneFlow

Add TAL STONEFLOW to water and mix for a minimum of three minutes until lump free consistency is achieved. Use an TAL approved forced action mechanical mixer.
When coarse aggregate is added to the product, drum mixers can be used for mixing.

Priming

Prime with TAL EPOXYBOND LV. Apply in a single coat by brush, roller or airless spray, taking care to work the mixed material well into the substrate. Ensure a uniform coating is achieved and that no ponding occurs. Place TAL STONEFLOW within 6 hours at 25°C. If the preferred, fully blind the wet primer surface immediately after application with TAL ANTISLIP GRAIN (M or C) and allow to cure for 24 hours prior to the application of TAL STONEFLOW. If blinding the surface, ensure that all loose aggregate particles are removed, by sweeping and then vacuuming the floor surface.

Application

Application of TAL STONEFLOW requires a fully trained specialist contractors as it involved grinding and polishing after the application of a the sealing coat. Contact TAL for details of specialist contractors who can apply TAL STONEFLOW.

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 7 hours (temperature dependant).

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 4°C.
Lower temperatures produce a slower set, higher temperatures produce a faster set.
Do not expose to water until the product is fully cured.

