



SmartScreed WP

Waterproof Floor Screed

SmartScreed WP is a pre-packed cementitious waterproof floor screed powder. It consists of special cement, graded quartz sand and selected waterproofing additives. **SmartScreed WP** is suitable for all new or old concrete substrate such as void decks, basement or any concrete substrate deemed necessary. When it is fully cured, **SmartScreed WP** serves as a strong and durable waterproof screed.

FIELDS OF APPLICATION

- Bathrooms & Toilets
- Kitchens
- Balconies
- Basements & Lift Pits

BENEFITS

- Durable waterproof screed
- Shrinkage compensated
- One component, easy to use
- Good workability
- Weather Resistance

TECHNICAL DATA

PROPERTY	TYPICAL RESULTS
Compressive Strength (ASTM C109 / 109M : 2016a)	25 - 40 N/mm ²
Flexural Strength (ASTM C348 : 2014)	> 2 N/mm ²
Water Absorption (ASTM C413 : 2001 (2012))	< 5 %
Flow (ASTM C1437 : 2015)	80 % - 120 %
Shrinkage (Continho Ring)	No cracks
Water Penetration under (DIN 1048 Pt 5 : 1991) (ADM / CE / 003 : 2010)	< 5 mm
Water Retentivity (BS 4551 : 2005 + A2 : 2013)	> 90 %
Volume Change (ASTM C827 / C827M : 2016)	< 1 %
Working Time	40 minutes
Stiffening Time (mins) (BS EN 1015 - 9 : 1999) (Method A)	1.0 N/mm ² ≤ 360 minutes 2.0 N/mm ² ≤ 420 minutes
Coverage per bag	- 0.55 m ² /kg/mm thickness

* All the data shown are based on controlled laboratory test (T=27±2°C and RH=60%)

SURFACE PREPARATION

For New Concrete

- As soon as the concrete has set sufficiently to support a man's weight, it shall be textured with a deep cutting serrated bull float to produce grooves of 3 mm in depth. Remove any scum or laitance. Cure the concrete with plastic sheet or water.
- Do not cure with curing compounds.
- New concrete must be allowed to cure for at least 28 days before topping of **SmartScreed WP**.

For Old Concrete

- Old concrete must be sound, clean and roughened. Any oil, dirt, debris, paint and unsound concrete must be removed.
- The surface must be prepared mechanically using a scabber, bushhammer, shotblast or scarifier which will give a surface profile of about 3 mm and expose the large aggregate of the concrete.
- All cracks over 1.6 mm wide should be routed out to a 6 mm width and 6 mm depth gap and should be pre-patched with **SmartScreed WP** before final topping of **SmartScreed WP**.
- The final step in cleaning should be the complete removal of all residues with a vacuum cleaner or pressure jet washer.

For Edges And Joints

- Edges should be sawcut 50 mm wide x 6 mm deeper than the topping thickness and chipped with a hand held chipping hammer to provide the wedge shaped notch.
- Moving joints as in the case of expansion joints should be brought up through the overlap by sawcutting or with the use of a divider strip.

MIXING

- Hand-held power mixer with paddle-head or pan mixer suitable for mortar mixing is recommended.
- Mix **SmartScreed WP** with 5 - 6 litres of clean water per 40 kg, depending on the consistency required.
- Always add powder to water during mixing, not the other way around.
- Mix for 3 to 5 minutes until a lump-free homogeneous consistency is obtained.

PLACING

- Place the well mixed **SmartScreed WP** onto pre-damped surface or onto pre-primed touch dry surface. A total minimum thickness of 20 mm is recommended. It can be applied at a recommended thickness of 20 - 50 mm.
- **SmartScreed WP** should be well compacted and screeded to the required level with a fall where required.
- Avoid direct sunlight or strong wind during placing.

CURING & TREATMENT

- Proper curing is essential for long-term performance of the waterproof screed.
- Plastic sheets or wet hessians should be employed in curing for a minimum of 24 hours. Where the waterproof screed is to receive a topping thereafter, curing compound should not be used.

PRECAUTIONS

- Avoid eye and skin contact as the product is alkaline.
- Gloves, goggles and dust mask should be worn.
- Avoid inhalation of dust during mixing.
- Wash thoroughly after handling.
- In case of eye contact, flush with plenty of clean water. Seek medical help immediately.

PACKAGING & STORAGE

SmartScreed WP is supplied in 40 kg bags and has a shelf life of 12 months if stored in a cool and dry place in sealed packing with sheltered protection from rain and sunlight.

DISCLAIMER

All information was prepared carefully, using current references available to us. Information provided is to the best of our knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself/herself as to the suitability and completeness of information provided here for their intended use. We do not accept liability for any loss or damage that may occur from the use of this information.