



BUILDING TRUST



PRODUCT DATA SHEET

LANKO® 189 Bulk Fill Screed

A PRE-BLENDED RAPID DRYING SCREED FOR INTERNAL AND EXTERNAL USE

DESCRIPTION

- LANKO® 189 Bulk Fill Screed is a self compacting cement-based, rapid setting and shrinkage compensated screed designed for internal and external applications, prior to cover with suitable flooring finishing
- LANKO® 189 Bulk Fill Screed can be applied from 10mm to 100mm in a single application.

USES

- Creating falls in wet areas and shower bases
- Build up concrete floor prior to covering with suitable floor finishes ie tile and stone finishes
- repairing concrete prior to floor covers
- Ramp installations
- Shopping centre floor repairs prior to floor coverings

Important Note, when used in wet areas and externally apply a suitable waterproofing membrane prior to floor coverings.

CHARACTERISTICS / ADVANTAGES

- High strength (>25MPa) and rapid strength gain
- Easy to apply
- ideal to build up or repair concrete prior to finishing floor coverings
- High build up to 100mm
- Ready for foot traffic after 3 hours
- Pourable or trowelable
- Smooth finish

PRODUCT INFORMATION

Packaging	Plastic 5kg bags
Appearance / Colour	Grey powder
Shelf life	If unopened, up to 18 months from date of manufacture.
Storage conditions	Store in dry cool conditions, out of direct sunlight.
Density	~2.15g/L

APPLICATION INFORMATION

Mixing Ratio	0.5 - 0.7 litres of cool clean potable water per 5kg bag
Consumption	A 5kg bag with cover approximately 2.5m ² at 1mm of thickness (dependant of mix consistency and substrate flatness).
Ambient Air Temperature	Use between +5°C and 35°C
Substrate Moisture Content	Not suitable over high moisture content substrates or substrate with rising damp. Contact Sika for application over substrate with high moisture content or rising damp.
Pot Life	20 minutes, measured at 23°C and 50% relative humidity.
Curing Time	Full cure after 48 hours, measured at 23°C and 50% relative humidity.
Applied Product Ready for Use	Ready for light foot traffic after 3 hours Floor covering can be applied after 24 hours drying time.
Initial Set Time	70-80 minutes, measured at 23°C and 50% relative humidity.
Final Set Time	80-90 minutes, measured at 23°C and 50% relative humidity.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS OF USE

- Do not apply or mix when temperatures are below 5°C or above 35°C. Also, do not apply if temperatures are expected to reach these levels for at least 24 hours after application.
- Performance may be affected if used in hot or cold conditions in the first 24 hours after application.
- Ensure all surface preparation, testing and mixing instructions are followed precisely.
- Do not add cement, lime, gypsum, plaster, bonding agents, aggregates or other materials.
- Any material that has started to set or stiffen must be discarded and not used.
- Only use clean, cool potable water.
- Do not apply LANKO® 189 Bulk Fill Screed over frozen or frost filled surfaces.
- Wherever possible, test areas are recommended, to ensure the suitability of the product for the intended use. This should include the floor finishing/covering.

FURTHER DOCUMENTATION

- Construction joints in the sub-floor must be detailed through LANKO® 189 Bulk Fill Screed to prevent cracking
- Not intended for permanent immersion applications
- Use only on properly prepared concrete floors from from contaminates
- Suitable only for non structural applications
- A minimum thickness of 10mm is required to ensure adequate curing and strength gain
- Do not over-watered, over-mixed, or remixed with additional water. Any material over 10 minutes old should be discarded and not used

- Do not use LANKO® 189 Bulk Fill Screed over a slab with a high moisture content or that is subject to rising damp apply a suitable Sika moisture barrier and non porous primer before application of LANKO® 189 Bulk Fill Screed.
- Not suitable for marine exposure
- For applications not mentioned on the data sheet, contact Sika Australia

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

SUBSTRATE PREPARATION

- Surfaces, must be dry, structurally sound, clean, free of dust, dirt, wax, oil, grease, asphalt, mastic, latex compounds, adhesives, paint, gypsum-based products and other contaminants
- All concrete sub-floors must be fully cured and dry, in accordance with AS1884-2021 (maximum moisture content 5.5% or 75% humidity)
- Non-porous concrete must be mechanically abraded/prepared
- Deeply contaminated substrates must be abraded to a clean, sound surface
- New concrete must be six weeks old before covering
- Any construction/expansion joints in the underlying sub-floor should be carried through the LANKO® 189 Bulk Fill Screed, to avoid cracking.

SUBSTRATE QUALITY / PRE-TREATMENT

- After the surface is prepared, prime with **Lanko 124 Ultraprime** and allow to dry.
- If using on a very porous slab or in warm or windy conditions ensure the primer does not flash dry. Wet down the surface before priming if needed.
- Apply the primer at the correct rate of 8 - 10m² per litre.
- Test areas should be performed in all cases, to assure the suitability of the product for the intended use. This should include the floor finishing / covering.

MIXING

1. Add 0.5 - 0.7 Litres of clean, cool, potable water into a mixing bucket
 2. Slowly add the LANKO® 189 Bulk Fill Screed powder to the pail while stirring the mixture.
 3. Mix mechanically using a drill and suitable paddle for approximately 2 minutes, then the formulation is ready to use.
- Concrete mixers or hand mixing is not suitable.
 - Use 0.5 Litres for lower slump and 0.7 Litres for higher slump mixes.
 - Do not add any additional water after initial mixing.

APPLICATION

1. Pour or work the mixed product onto the primed surface
 2. Use an appropriate trowel to work product to the required height and level
 3. Do not exceed 100mm in one application. If greater thickness is required allow to cure and reapply to required height Coating or Covering
- LANKO® 189 Bulk Fill Screed may be coated or covered 24 hours after installation (after 23°C and 50% relative humidity)
 - After curing the surface may be treated the same as concrete
 - Most floor covering suitable for application onto concrete may be used
 - Always follow the floor covering manufacturer's instructions
 - For further details, please contact Sika Australia

CLEANING OF TOOLS

- Clean mixing and application equipment with water immediately following use prior to the material drying.
- Remove splatter or spills with water before material sets.
- LANKO® 189 Bulk Fill Screed contains cementitious materials and if allowed to dry, removal becomes extremely difficult to remove.

Sika Australia Pty Limited

ABN 12 001 342 329

aus.sika.com

Tel: 1300 22 33 48



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LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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