

Kiilto 80 1–30 mm



A cement-based levelling screed for correcting floor slopes in interior areas. Approx. 12 l screed per bag. Low-alkali. Cement-based.



The product is listed in the portal for building products that can be used in Nordic Swan Ecolabelled buildings.

- surface ready to be waterproofed
- for building and correcting of floor slopes
- coverage 1.7 kg/m²
- walkable: 3 h
- coatable: 16 - 48 h
- for interior areas

AREA OF APPLICATION

Cement-based levelling screed for correcting floors and making floor slopes before over-levelling and/or floor covering installation at thicknesses of 1–30 mm. For over levellings we recommend Kiilto 97 DF, TopPlan DF or Tasoflex floor levelling compounds. Suitable for interior use.

The substrate must be clean, solid and firm. Remove cement laitance, paint splashes, adhesive residue and other impurities, and brush or vacuum the floor thoroughly. Concrete subfloors are pre-treated with diluted Kiilto Start Primer (10–20% Kiilto Start Primer/80–90% water) prior to application of the floor screed. Surfaces under reconstruction as well as board surfaces must be primed with undiluted Kiilto Start Primer before levelling.

In outdoor applications and with non-absorbent substrates prime the substrate with Kiilto Fix Primer or make a bond bridge with, e.g. Kiilto Saneerauslaasti cementitious adhesive with a notched trowel. In ground supported structures, the capillary rise of moisture must be prevented.

The concrete substrate must comply with national standards. (In Finland SisäRYL 2013 and BY 45).

INSTRUCTIONS FOR USE

Strew Kiilto 80 powder slowly while stirring in cool (+10–20 °C), clean water until a smooth, flexible mass is formed. Let the mix mature for approx. 2 min., remix once and start spreading.

Apply Kiilto 80 evenly by using a darby float and/or a wide steel trowel. The layer must be dry before a new layer is applied. The drying of the screed must not be accelerated by heat or ventilation, since too quick a drying may cause hair cracks.

If the temperature in the levelled room is higher than normal, the relative humidity very low, or if the levelled floor surface is exposed to direct sunlight, we recommend covering the floor with a tarpaulin as soon as it is dry enough to allow walking.

SUBSTRATE HUMIDITY	concrete < 90 % RH
LAYER THICKNESS	1–30 mm
SHRINKAGE	< 0.7 ‰ (23 °C, 50 % RH)
WALKABLE	approx. 3 hours
APPLICATION TEMPERATURE	Optimal +18–20 °C, minimum +10 °C
CLASSIFICATIONS AND CERTIFICATES	CT-C30-F7 (EN 13813), M1
MAX. GRAIN SIZE	approx. 0.5 mm
FIRE CLASS	A2fl-s1
pH	< 11 (low alkali)
COATABLE	16 h/10 mm, 2 d/30 mm
COMPRESSION STRENGTH	C30 (> 30 MPa) EN 13813
COVERAGE	1 mm layer/m ² solid matter weighs approx. 1.7 kg (approx. 12 litres of screed/bag).
MIXING RATIO	3.0–3.5 l water / 20 kg bag
FLEXURAL STRENGTH	F7 (> 7 MPa), EN 13813
BOND STRENGTH	> 1 MPa, EN 13813
TYPE/BINDER	resin-cement-quartz sand-based powder
WORKING TIME	approx. 30 min.



The floor should be covered with a flooring relatively soon after it has hardened and dried. This will prevent the surface from over drying, cracking and becoming loose.

Suitable also for floors that are going to be painted in secondary rooms with light traffic, but not, for example, in garages or for bathroom floors. In areas where waterproofing is used, e.g., bathroom floors, floor levelling should be applied under the waterproofing membrane.

Not suitable for areas permanently under water (e.g. swimming pools).

Note! Using more water than instructed will retard the drying process and weaken the strength of the concrete. It may also cause separation and cracking.

PACKAGE SIZES	20 kg bag
STORAGE	Unopened package in a dry place max. 1 year.

ADDITIONAL INFORMATION

The information given in this product data sheet is based on our tests and our practical knowledge. The technical data is defined in standard conditions. Variations in local working conditions and methods will affect the product performance and result. We guarantee the high quality of our products according to our Quality Management System. No liability can be accepted from incorrect use of the product or prevailing conditions, over which we have no control. Thus, we cannot be held responsible for the final result. The correct use of the product presupposes that the user has made him/herself aware of the contents of the working instructions and procedure guide, if provided.

ENVIRONMENT AND SAFETY

Fresh mortar is alkaline and irritates skin and mucous membranes. Avoid unnecessary skin contact. Use of respirator is recommended while mixing and sanding.

See a separate MSDS for detailed safety instruction.