Construction

Product Data Sheet
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Sika Top® -111/1
Sika Top® -111/3

Polymer Modified, Castable Mortars

Product Description

A 2 component cement based polymer modified levelling, surfacing and grouting mortar. Two aggregate sizes, 3.0 mm and 1.2 mm depending upon application.

Uses

Sika Top® -111 is suitable for use on substrates of concrete, stone, iron and steel as a wear resistant surfacing and levelling compound for:

- Concrete roads.
- Parking areas.
- Swimming pools.
- Gullies and channels.

Sika Top® -111 is also suitable as a grouting material for fixing of:

- Posts for guardrails, signs and crash barriers.
- Lamp standards.
- Pillars and buttresses.
- Foundation slabs and supports.

Advantages

Sika Top® -111 is an economical and easy to use material offering the following beneficial properties:

- Easy to mix and apply.
- Rapid strength development.
- High mechanical strengths.
- Excellent adhesion.
- Good flow characteristics.
- High abrasion resistance.
- Resistant to de-icing salts.
- Non-toxic.

Product Data

Form
Comp (A): Liquid
Comp (B): Powder

Colour of Mix
Grey

Packaging
43 kg units (A+ B) Type 3.0 mm.
35 kg units (A+ B) Type 1.2 mm.

Storage Conditions
Comp. (A) -Free from frost.
Comp. (B) -Free from moisture.

Shelf Life
12 months when unopened.

Technical Data

Density
Comp (A) = 1.02 kg/l
Comp (B) = 1.7 kg/l (Bulk Dens.)
Comp (A + B) mixed = approx. 2.2 kg/l

Compressive Strength
40-50 N/mm^2
After 28 days at 20°C.
Qc. Lab results: in 4 x 4 x 16 cm Prisms Air Cure

Flexural Strength
8 - 10 N/mm^2 (after 28 days at 20°C)

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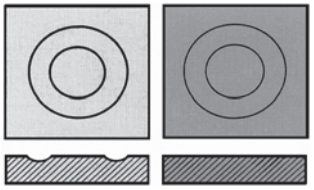
Bond Strength to Concrete	2.5 - 3 N/mm^2 (concrete failure) (after 28 days at 20°C)
Abrasion Resistance	According to Ebener: 40 cycles, 5 steel balls 18 mm □ 20 kp load. For additional information please ask for “A brief guide to the use of Sika® ready-mix mortars” (all about bedding and grouting).



Ordinary cement Mortar — Sika Top® 111 Flowable mortar

200 gr __ Weight loss ___1 gr

Application

Coverage	Approx. 2.3 kg per 1 Liter / Mortar.
Surface Preparation	Concrete, mortar and stone surfaces must be clean sound and free from oil, grease, cement laitance and all loosely adhering particles. Iron and steel surfaces should be free from scale, rust, oil and grease. Absorbent surfaces should be saturated thoroughly. When using Sika Top® -111 the application of a primer slurry Comp (A+B) is recommended.
Mixing	Put the full contents of component (A) (powder) into a suitable mixing container. Add component (B) and mix for at least 2 minutes until a smooth consistency is achieved.
Application	When used as a surfacing, apply the mortar by trowel and spread evenly. Immediately scatter the surface with quartz sand in excess and leave to dry. When used as a grout, immediately after mixing pour into the fixing hole. Take care not to entrap air in the cavity, and keep moist until hard.
Cleaning	Clean all tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically.
Important Recommendations	Minimum application temperature + 8°C. Layer min. max. (3.0 mm type) = 0.8 cm/30 mm. (1.2 mm type) = 0.4 cm/12 mm. When used in thicker layers ask for technical advice.

Safety Instructions

Ecology	In liquid state product will contaminate water. Do not dispose of into water or soil but according to local regulations.
Toxicity	Non-Toxic under relevant health and safety codes.
Transport	Non-hazardous.

Legal notes

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