

POLYMER MODIFIED CEMENT TOPPING

Introduction

The **FlorCrete** System is a cement based polymer modified high performance self levelling system designed to be used as a floor topping. It is based on **TeknoSelf 500** specialized material.

Where to use

FloorCrete is used in Interior applications over suitable existing substrates where a high resistance to loads and heavy foot traffic is required. It can be placed in thicknesses from 2 – 10 mm.

Among its uses:

- Levelling of uneven concrete floors.
- Placement of screeds on separating layers and compound screeds.
- In Indoor and outdoor areas.
- In areas with floor heating.
- In hospitals, stores, schools and administrative buildings, hotels, shopping centers and houses.
- Repairing minor defects.
- Thin and Thick applications.

Features & Benefits

- Dry to foot traffic after 2 hours.
- Ready for floor cover after 15 hours.
- Resistant to abrasion.
- Doesn't crack even in very thin thicknesses.
- Perfect bonding to concrete substrates.
- Can be applied in wide areas without cracking.
- Shrinkage compensation system
- provides longterm dimensional stability.
- rooting from temperature differences.
- Resistant to water and freeze thaw cycles.

Characteristics

TeknoSelf 500 is manufactured in a grey or white powder consisting of specially blended cements with special hydrating and fast setting properties. Its ingredients include blended and graded silica sand, polymer and resins as well as special proprietary chemicals. When mixed with water it becomes highly fluid and self levels with a high bonding capability.

Substrate Preparation

The concrete surfaces must be clean, dry, sound and free from dust, grease or any contaminating barrier. Uneven surfaces should be repaired. If the surface is too absorbent, a suitable damp proofing primer should be used. Concrete surfaces must be saturated with water to avoid rapid drying before setting time.

Mixing

Specific amount of water is poured into a clean mixing container. **TEKNOSELF 500** is slowly added to the water under continuous stirring with a 400 - 600 RPM mixer. Mix for 3 – 5 minutes until a smooth, workable, fluid consistency is obtained. After resting it for approximately 3 – 5 minutes and mixing again for 30 seconds, the material is ready to use. Normal usage requires 5.5 – 6.5 litres of water per 25 kg. **TEKNOSELF 500**. Partially cured material must not be stirred and/or used again.

FLORCRETE

POLYMER MODIFIED CEMENT TOPPING

Application

TEKNOSELF 500 should be poured directly into the formwork or it should be pumped under pressure. The mixture should be spread on the surface with a trowel. The compound spreads evenly by self leveling. Seams and skin formation in the joint areas of individual sacks must be avoided by working continuously. Use the spiked roller to remove the air bubbles before the formation of a surface skin. Open areas should be protected from aggressive weather conditions during the first 12 hours.

Caution

- Avoid use under temperatures below +5°C and over +35°C.
- Do not use on permanently damp floors or floors with rising damp
- A slow rotating mixer must be used in mixing.
- Pay attention to the amount of water added to the mortar. Do not add more water than necessary.
- Avoid application on frozen areas, on areas under risk of freezing in 24 hours or on areas open to direct sunlight or wind.
- **TEKNOSELF 500** should be used in 30 minutes but pot life and curing times of cementitious materials vary depending on the relative humidity, substrate and environment temperature.
- Substrates with high water absorption must be wetted well with water or covered with **TEKNOLATEX 100** before application.

- Floor heating must be turned off 24 hours before application.
- Avoid using more than 1 cm thickness in one application.



Technical Data

Color	Grey or White
Application Thickness	2 – 10 mm
Flexural Strength	Min. 8.0 N/mm ²
Compressive Strength	Min. 40 N/mm ²
Pot Life	20-30 Minutes
Shrinkage	No shrinkage
Mixing Ratio	5.5 – 6.5 liters per bag

Packaging

25 KG polyethylene reinforced craft bags.