

# TechnoCrete™SM100

One Component Self-Leveling Mortar

TECHNOPOL

مقاوم سازی تکنوپل

## PRODUCT DESCRIPTION

TechnoCrete™SM100 is a one-component, polymer modified, cement-based self levelling mortar with excellent adhesion, strength and high performance which is used to levelling and smoothing of interior floors before the application of final floor such as carpet, tiles, wood flooring or other flooring systems finish. This one-component mortar offers high mechanical strength, high abrasion and chemical resistance.



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## PHYSICAL PROPERTIES (One-Component Self-Leveling Mortar)

Physical Properties	Unit	TechnoCrete™SM100
Physical Properties	-	Powder
Chemical Base	-	Cement Based, Polymer Modified
color	-	Grey
Density	Kg/l	1.12
Shelf Time	month	12
Pot Life	Minute	30
Fully Cured	Day	7
Storage Condition	°C	Store dry at 5-35

## TECHNICAL DATA

feature	unit	amount
Compressive strength (7 days in 23 °C)	N/mm <sup>2</sup>	18
Compressive strength (28 days in 23 °C)	N/mm <sup>2</sup>	25
Tensile Strength in Flexure (28 days in 23 °C)	N/mm <sup>2</sup>	6

## ADVANTAGES

- One component - just add water
- Short wait for foot traffic
- Fast application because of the good flow and cohesion of product
- Easy to place
- Quick drying and hardening
- Low tension
- Low odor

- Good bond and compaction to surface

## TYPICAL USES

One-component Self-leveling mortar can be applied manually or by pump for floor leveling with a thickness of 2-10 mm, before the next layers apply.

- For indoor and outdoor surfaces
- Warehouses floor
- Leveling of both large and small surfaces in commercial, residential and areas with foot traffic
- Prefabricated Flooring Systems
- Providing a suitable substrate for ceramic, stone, carpets, linoleum, PVC sheet or carpets etc.

## PACKAGING

Due to the fact that self-leveling mortar is one-component, it is offered in 25 Kg bags.

## INSTALLATION PROCEDURE

### PREPARATION OF SUBSTRATE

surface preparation is very important. The existing surface must be clean, sound and free of oil, dust or any other foreign substances. Surface preparation by mechanical methods such as sandblasting or shot blasting is recommended. If you need a primer before starting, you can use TECHNOPOL company primers. For a



very porous surface, two coats of primer may be required.

#### MIXING

Before adding the TechnoCrete™SM100 powder gently, add the clean water to a washed mixing container according to the desired consistency. The mixture should be mixed using a low speed electric mixer (approximately 300 to 400 rpm) for 3 minutes or until the mixture is lump-free. Add water or other required ingredients.

#### APPLICATION

Pour the mixed mortar on the prepared surface and apply it to the required thickness. Roll completely in two directions with a spiked roller to remove the trapped air. If working with a pump, first pour the mortar in the mixer and mix well, then apply it on the desired surface by using a pump.

#### LIMITATIONS

- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.
- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry.
- Do not use when air and surface temperatures are below +5°C and above +35°C.
- Avoid heavy traffic for 24 hours.

#### CAUTION

The use of safety glasses and chemically resistant gloves is recommended. Use appropriate clothing to minimize skin contact. The use of NIOSH-approved respirator is required to protect respiratory tract when ventilation is not adequate to limit exposure below the PEL. Refer to Safety Data Sheets (SDS) for detailed information.

#### FAIRST AID

##### Skin

Wash fibers off skin with water and soap. If fibers are embedded in the skin, remove with tweezers. Discard clothing that may contain embedded fibers. Seek medical advice if exposure results in adverse effects.

##### Eyes

Immediately flush with a continuous water stream for at least 20 minutes. Washing immediately after exposure is expected to be effective in preventing damage to the eyes. Seek medical advice.

##### Inhalation

If there is inhalation exposure to the fibers of this product, remove source of exposure and move victim to fresh air. If victim is not breathing, give artificial respiration. If there is breathing difficulty, give oxygen. Seek medical advice for any respiratory problems.

##### Ingestion

Ingestion is not a likely means of exposure for this product. If ingestion does occur, do not induce vomiting. Give nothing by mouth if victim is unconscious. Seek medical advice.

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