TechnoCrete™SM300

Fiber Reinforcement Self-Leveling Mortar

PRODUCT DESCRIPTION

TechnoCrete™SM300 is fiber reinforcement self-leveling mortar which has a very easy leveling ability on the surface and provides an integrated and smooth surface with minimal hand intervention. This product, its thickness is 4 to 8 mm, has high abrasion resistance and is suitable for industrial and warehouses flooring. This mortar has a high flowability and non- shrinking properties. Also, due to the presence of organic adhesives in the product structure, it creates significant cohesion and adhesion strength on substrate, which leads to high resistance to compressive forces after hardening.


Buildings Structures


Transportation Infrastructure


Water & Wastewater


Oil, Gas & Industrial


Waterfront Structures


Industrial Facilities

PHYSICAL PROPERTIES (TechnoCreteSM300)		
	Unit	TechnoCrete™SM300
color	-	Grey
Content	-	A Component: Mineral fillers, steel fiber-reinforced, special cement B Component: Acrylic copolymer dispersion
Density	Kg/l	1.94
Pot life	min	30
Open to pedestrian traffic	hours	48
Open to heavy traffic	days	7
Full Curing	days	28

TECHNICAL DATA		
feature	unit	amount
Adhesion Strength (28 days)	N/mm2	2
Compressive strength	N/mm2	23

ADVANTAGES

- Offers excellent resistance up to a surface thickness of 8 mm
- Excellent adhesion to surfaces
- High efficiency and flowability
- It absorbs surface vibrations and has high flexibility
- Non-shrinkage
- high resistance to temperature changes
- Resistant to moisture, impact and contact with chemicals

TYPICAL USES

- indoor and open-air areas
- Factory and distribution center floors
- Shopping center floor
- Car parks and garages surfaces
- In stacking bays
- Gas stations
- Balcony and terraces
- In worn and torn mechanical and industrial floors utilized as floor coating

INSTALLATION PROCEDURE

PREPARATION OF SUBSTRATE

The surface must be dry, free of moisture and any waste materials such as dust, oil, paint, silicate, and detergents that prevent proper adhesion to the surface. The surface temperature must be at least +10 degrees Celsius. Cracks on the surface can be repaired with the repair mortar, which is also provided by TECHNOPOL Company.

The prepared substrate should be moistened with water and the surface moisture should be maintained until the end of the mortar application. Cold joints and small cracks (up to 1 mm) can be filled with TechnoCrete™SM300.

APPLICATION

Before applying the fiber mortar, the primer can be used for better adhesion of the surfaces. Note that we apply the primer with the help of a bristle brush to provide complete adhesion with the mortar layer. After applying the primer, it is time to level the mortar. TechnoCrete™SM300 should be spread and leveled on the surfaces with a special trowel. Moreover, the air trapped inside the layer must be removed with spike roller.

Under normal circumstances, the surface can be used after 48 hours for pedestrian. After 72 hours, the surface is ready for car traffic, and after a week, heavy traffic condition will be able to move.

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.