



TECHNO 3D 1020

*Polymeric Composite 3D
Concrete Printer Mortar*

PRODUCT DESCRIPTION:

It is a fiber-reinforced, fine-aggregate, high-performance fluid and fast-drying 3d concrete printer mortar developed for moldless production, developed for new generation 3D printers.

FEATURES:

Layered structural components are created on top of each other.
Splinterproof.
It is fiber reinforced.
It provides less workload.
Increases freedom in design.
It saves on concrete consumption.

PRODUCT INFORMATION:

Chemical Base Cement-based
Appearance /Color Powder/gray

PERFORMANCE:

(23°C, 50% RH)

Dry Bulk Density	1350 ± 200 kg/m ³ TS EN 1015-10
Compressive strength 28 days	≥50N/mm ² TS EN 196-1
Flexural Strength 28 days	≥ 7 N/mm ² TS EN 196-1

These values have been obtained as a result of laboratory tests carried out in our company and are valid for the performance of the finished applications at the end of the full drying period. Since the temperature and humidity values in the construction site environment and the application surfaces and areas will vary, the values may change.

USAGE AREAS:

It is used in a 3D printed system to create layered structural components.

APPLICATION INSTRUCTIONS:

Slowly pour 25 kg of TECHNO 3D onto approximately 4 kg of water and mix with the help of a low-speed mixer until no lumps remain. Let the mortar rest for 3-5 minutes to mature. It is mixed again before starting the application.

Application Equipment:
Hand Mixer
Steel Trowel
Suitable Pump
3d Concrete Printer

DEKOSTAR San. ve Tic. Ltd. Şti
Karahıdır Mah. Yolu Üzeri No.:78 Gürsu - BURSA / TÜRKİYE
Tel: (+90) 516 168 61 01 / 850 888 61 00
www.barskimya.com info@barskimya.com



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The prepared mortar is taken to the machine and the printing process is started. Expired mortar should be disposed of.

LIMITATIONS:

Please obey to the application instructions to obtain optimum quality. The application should be done between +5 C and +30 C. It should not be applied in hot, rainy and windy weather. It should not be applied on surfaces where there is a danger of frost. Until the product cures, it should be protected from rain, water, frost and negative external factors.

PACKAGING:

In 25 kg kraft bag,
(64 pieces per pallet, 1600 kg)

COLOUR:

Grey.

SHELF LIFE:

It is 1 year from the date of production in its original packaging in dry and non-humid (temperature between +5 C and +25 C) environments. The lid of the containers should be tightly closed when not in use. It should be kept away from moisture.

STORAGE CONDITIONS:

It should be stored in its unopened original package, in a moisture-free, dry and cool (temperature between +5 C and +25 C) environment. It should not be left under direct sunlight.

SECURITY:

Since it is cement based, do not breathe the dust, do not contact the skin and eyes. Use protective gloves, goggles and clothing. In case of eye contact, seek medical advice immediately. Keep out of reach of children. In case of skin contact, wash with plenty of water and soap. Do not swallow. For detailed information and recommendations, please refer to the Safety Data Sheet.

DEKOSTAR San.ve Tic.Ltd. Şti. is not responsible for any application errors that may occur if the product is used for purposes other than its intended use or if the above-mentioned application conditions and recommendations are not followed. Dekostar reserves the right to change its products. Users should consider the latest edition of the Technical Data Sheet of the relevant product.