

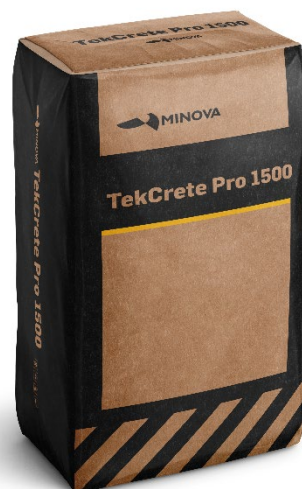
**MINING / CONSTRUCTION**

**TEKCRETE PRO 1500**

**RAPID HARDENING DRY PROCESS SHOTCRETE (GUNITED) MATERIAL**

**DESCRIPTION**

TekCrete Pro 1500 is supplied as a ready-to-use dry powder, formulated for dry mix shotcrete requiring only the addition of water. TekCrete Pro 1500 is a formulated blend of special cements, additives, and carefully graded aggregates which when mixed with water results in a high build, dense, low absorption shotcrete mortar. The controlled set feature allows 10 – 15 minutes working time for trowelling if needed. Very high early and ultimate compressive strengths are achievable. Each 60 lb bag of TekCrete Pro 1500 material creates coverage of approximately 0.45 cubic feet.



**USES**

TekCrete Pro 1500 is ideal for large vertical and overhead structural repairs where a rapid hardening product is needed. Bridge and parking structures, supporting columns and beams, seawalls tunnel linings, slope stabilization, dams, mine entry support, and mine sealing are just a few of the applications for TekCrete Pro 1500.

**ADVANTAGES**

- Very high early strength – faster turnaround
- High build rate – allows a large thickness to be sprayed in a single pass
- Workable – The controlled set feature allows 10 – 15 minutes of open time to allow trowel finish.

**APPLICATION METHOD**

**PREPARATION**

If spraying on rock, clean surfaces of loose or friable materials, mud or foreign matter that might weaken shotcrete bonding with high-pressure water, as moisture will allow for a better bond between the product and the base material.

Spraying of shotcrete (guniting) mortar is a skilled process and requires trained and experienced operators to achieve best results. The operator controlling the nozzle will determine the quality of the finish as he proceeds with the application. It is therefore essential that only experienced applicators who are familiar with the process and are fully aware of the requirements and details of the application techniques be employed.

Remove or protect objects that are not to be covered with TekCrete Pro 1500. Due to the rapid setting nature of TekCrete Pro 1500, the use of a pre-dampener is not recommended.

**PLACEMENT**

The placement of TekCrete Pro 1500 depends primarily on the ability of the dry process shotcrete nozzleman who should be certified in the placement of shotcrete. Ensure air and substrate temperatures are greater than 40° F (4.5° C) during and for 48 hours after application of shotcrete.

The best time to spray is directly after surface preparation when the base material is first exposed. After coating the area with TekCrete Pro 1500 and allowing the product to set firmly, keep the work area moist using a fine mist water spray for one day in order to generate best results.

**CURING**

Curing is essential to optimize the physical properties of TekCrete Pro 1500 and minimize plastic shrinkage. TekCrete Pro 1500 should be cured immediately after the material has reached initial set in accordance with ACI 308R-16 (Guide to External Curing of Concrete). Curing is particularly important where rapid moisture loss can take place such as low humidity, high winds and high temperatures.

Purge all TekCrete Pro 1500 material from the pump and lines upon project completion. Follow the pump manufacturer’s instructions for additional specific clean-up procedures.

**TECHNICAL DATA**

The data below is laboratory data only. It may vary in practice due to thermal exchange between cement and substrate, temperature and other factors.

Parameter	Time / Value
<b>Compressive Strength ASTM C39</b>	1 hr / 2500 psi (17.2 MPa) 4 hrs / 4000 psi (27.5 MPa) 24 hrs / 4500 psi (31.0 MPa) 7 days / 5500 psi (38.0 MPa) 28 days / 8500 psi (58.6 MPa)
<b>Dry Shrinkage ASTM C341</b>	56 days / -0.059 (%)
<b>Wet Expansion ASTM C341</b>	56 days / 0.006 (%)
<b>Modulus of Elasticity ASTM C469</b>	28 days / 5100 ksi
<b>Rapid Chloride Permeability ASTM C1202</b>	28 days classified “low”
<b>Tensile Bond Strength ASTM C1583</b>	28 days 260 psi (1.8 MPa)
<b>Freeze/Thaw Resistance RDM % ASTM C666</b>	98 @ 216 °C

**SAFETY INSTRUCTIONS AND LIMITATIONS**

Good housekeeping is needed during storage, transfer, handling and use of this material to avoid excessive dust accumulation. Never add material to this product unless instructed by Minova USA, Inc.

**PACKAGING AND TRANSPORTATION**

TekCrete Pro 1500 is available in 60 lb bags, 48 bags per pallet and 3,000 and 1,500 lb supersacks

**STORAGE AND SHELF LIFE**

Twelve months, in cool dry conditions.

**DISPOSAL**

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act accordance with all applicable federal, state/provincial and local laws and(RCRA) 40 CFR 261. Dispose of material in regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

**APPROVALS AND CERTIFICATES**



an ISO 9001:2015  
Quality Management System Certified Company.

**DISCLAIMER**

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**ADDITIONAL DOCUMENTATION**

Started more than 135 years ago, Minova is a global manufacturer and supplier of chemical and mechanical earth control products and support equipment. With manufacturing plants on five continents and operations in more than 25 countries, Minova is an industry-leading provider of ground support solutions for the underground mining, construction and energy industries.

If further information is required consult Minova Americas website: [www.minovaglobal.com](http://www.minovaglobal.com).

- TekCrete Pro 1500 Safety Data Sheet (SDS)
- Minova TekCrete Pro 1500 Product Specification

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