

GeoKrete®

TYPICAL PERFORMANCE CHARACTERISTICS*

- **Compressive Strength (ASTM C39 & C109)**
28-days >8,000 psi | 55.1 MPa
- **Flexural Strength (ASTM C78)**
28-days >800 psi | 5.5 MPa
- **Bond Strength (ASTM C882)**
28-days >3,000 psi | 20.7 MPa
- **Modulus of Elasticity (ASTM C469)**
28-days = 5.49×10^6 psi | 37.8 GPa
- **Chemical Resistance (ASTM C267)**
0% mass loss in 12 week
sulfuric acid @ pH 1.0 immersion
- **Chloride Ion Penetration Resistance (ASTM C1202)**
28-Day < 250 Coulombs (very low)
- **Split Tensile Strength (ASTM C496)**
28-days >900 psi | 6.2 MPa
- **Shrinkage (ASTM C1090)**
28-days $\leq 0.02\%$
- **Freeze Thaw (ASTM C666)**
No visible damage after 300 cycles
- **Abrasion Resistance (ASTM C1138)**
6 Cycles at 28 Day - loss <1.0%

* The values stated in inch-pound units are to be regarded as the standard. The values given in International System are for information only.

Fully Structural and Corrosion Resistant Geopolymer Mortar

DESCRIPTION

GeoKrete® geopolymer is formulated to provide corrosion resistant protection in a high hydrogen sulfide environment, restore structural integrity and eliminate the infiltration of groundwater in deteriorated structures. GeoKrete is a factory blended, one-component (just add water), eco-friendly, micro-fiber reinforced geopolymer mortar synthesized from reactive SiO_2 and Al_2O_3 from industrial byproducts, enhanced with monocryalline quartz aggregate. The GeoKrete geopolymer reaction mechanism is alkali-activated polycondensation which yields superior physical properties and chemical resistance. It can be applied in one pass up to several inches thick on horizontal or vertical surfaces by low pressure spraying or spin cast application process.

RECOMMENDED FOR

Structural restoration of large diameter pipes, culverts and tunnels, including raw, storm and wastewater, consisting of metal, concrete, stone, masonry and others. Other structures such as manholes, wet-wells, and treatment plant structures also benefit from the superior strength and corrosion resistance properties of this advanced geopolymer material.

FEATURES AND BENEFITS

- **Quality controlled, one-component blend for uniform results.**
- **Excellent performance and consistency when pumping long distances.**
- **Resistant to acid attack in wastewater streams with pH as low as 1.0 and temperature exceeding 212°F | 100°C for industrial effluent.**
- **Extremely low permeability**

Key Product Used In:





WARRANTY

Quadex, LLC warrants its products to be free of defects in material and workmanship. Unless superseded by project specifications and terms agreed upon in writing between installer and Quadex prior to bid, if within one year from purchase, any Quadex, LLC product is proven defective, the company will replace said product or refund its purchase price at its sole discretion. The company’s obligation shall be limited solely to such replacement or refund. There are no other warranties by Quadex, LLC, expressed or implied. There is no warranty if Quadex products are used contrary to Quadex, LLC’s written directions.

SURFACE PREPARATION

Prepare surface to be patched by removing unsound concrete, dirt, dust, oil and other debris using high pressure (3,500 PSI | 241.3 bar) water blasting. Stop active infiltration. Then rinse with potable water to remove all remaining dirt, sand and loose debris. This will provide a clean, damp surface to allow for a good bond.

CURING

Cure in accordance with manufacturer’s recommendations.

PRECAUTIONS

Avoid eye contact or prolonged contact with skin. Wash thoroughly after use. Persons using Quadex GeoKrete geopolymer should wear necessary PPE consisting at minimum of eye protection, dusk mask and rubber gloves. Read all product labels and technical literature prior to use.

PACKAGING/YIELD

North America

			1.0-INCH 25.4MM THICKNESS		
BAG SIZES LBS KG	BAG MATERIAL	YIELD PER BAG FT ³ M ³	BAG COVERAGE FT ² M ²	MASS COVERAGE LBS/FT ² KG/M ²	WATER PER BAG* % BY WEIGHT
50 22.7	Mult-Wall Paper Bag	0.5 0.014	6.05 0.56	8.26 40.32	9.5 - 12.5
60 27.2	Mult-Wall Paper Bag	0.61 0.017	7.27 0.67		
1,000 453.6	Super Sack	10.09 0.286	121.09 11.25		

*Due to natural deviations in the constituent materials, additional water may be necessary on occasion. Applicators are trained to adjust as needed based upon field performance of the product.

