TECHNICAL DATA SHEET

GeoKrete®-RS

TYPICAL PERFORMANCE CHARACTERISTICS*

- **Compressive Strength (ASTM C39 & C109)**
  3-hours >1500 psi | 10.3 MPa
  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 >1,500 psi | 10.3 MPa
- **Modulus of Elasticity (ASTM C469)**
  28-days = 5.49 x 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 C596)**
  28-days 0%
- **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.

PRECAUTIONS

Avoid eye contact or prolonged contact with skin. Wash thoroughly after use. Persons using Quadex GeoKrete-RS 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.

Rapid Setting, High Strength, and Corrosion Resistant Geopolymer Mortar

DESCRIPTION

GeoKrete®-RS is a rapid strength gaining / rapid setting geopolymer mortar for projects demanding a quick return to service (within 3 hours). An added benefit of GeoKrete-RS is its application versatility and use in many types of mixers.

PROPRIETARY MATERIAL PROPERTIES

- **One component mix, micro-fiber reinforced geopolymer**
- **Alkali activated polycondensating mechanism with reactive SiO_2 and Al_2O_3**

RECOMMENDED FOR

Fully structural restoration of raw, storm, and wastewater infrastructure:

- **Forcemain receiving manholes**
- **Wet-wells**
- **Treatment plant structures**
- **Large diameter pipes, culverts and tunnels**

MATERIALS OF CONSTRUCTION

Can be applied to concrete, stone, masonry, metal, and others.

FEATURES AND BENEFITS

- **Can be used with batch and continuous mixers**
- **Ability to hold back low-pressure flow of water**
- **Quick return to service: 3 hours**
- **Low rebound**
- **Thixotropic properties allow material to build thickness**
- **Protects in high H_2S environment**
- **Can be applied on horizontal and vertical surfaces**
- **Low permeability**

QUADEX® A VORTEX COMPANY REPAIR MATERIALS

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VORTEX

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.





PACKAGING/YIELD

European (Production of Material) Metric Units

			25.0MM | 0.98-INCH THICKNESS		
BAG SIZES (KG)	PACKAGING	YIELD PER BAG (M^3)	BAG COVERAGE (M^2)	MASS COVERAGE (KG/M^2)	WATER PER BAG* % BY WEIGHT
20	Plastic Bag	0.014	0.52	37.56	13.0 - 16.0

European (Production of Material) Imperial Units

			25.0MM | 0.98-INCH THICKNESS		
BAG SIZES (LBS)	PACKAGING	YIELD PER BAG (FT^3)	BAG COVERAGE (FT^2)	MASS COVERAGE (LBS/FT^2)	WATER PER BAG* % BY WEIGHT
44.1	Plastic Bag	0.48	5.6	7.69	13.0 - 16.0

North America (Production of Material) Metric Units

			25.0MM | 0.98-INCH THICKNESS		
BAG SIZES (KG)	PACKAGING	YIELD PER BAG (M^3)	BAG COVERAGE (M^2)	MASS COVERAGE (KG/M^2)	WATER PER BAG* % BY WEIGHT
22.7	Mulit-Wall Paper Bag	0.015	0.61	37.64	12.5 - 15.5

North America (Production of Material) Imperial Units

			25.0MM | 0.98-INCH THICKNESS		
BAG SIZES (LBS)	PACKAGING	YIELD PER BAG (FT^3)	BAG COVERAGE (FT^2)	MASS COVERAGE (LBS/FT^2)	WATER PER BAG* % BY WEIGHT
50	Mulit-Wall Paper Bag	0.54	6.59	7.71	12.5 - 15.5

*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.