

GEOOTERIA

by Ecobeton



GEOT10 - ELECTRICAL INSULATOR

GEOTERIA

A **GEOPOLYMER RESIN**
DESIGNED AS AN
ELECTRICAL INSULATOR
MATERIAL FOR THE
INDUSTRY.





NO CURRENT FLOW AT 800 V

6 MM THICKNESS

Composition

Metakaolin MK-750 based geopolymer (Si:Al =2:1)

Micronized recycled glass

Challenges

Flowability

Curing

Thermal expansion of the coil at high temperatures

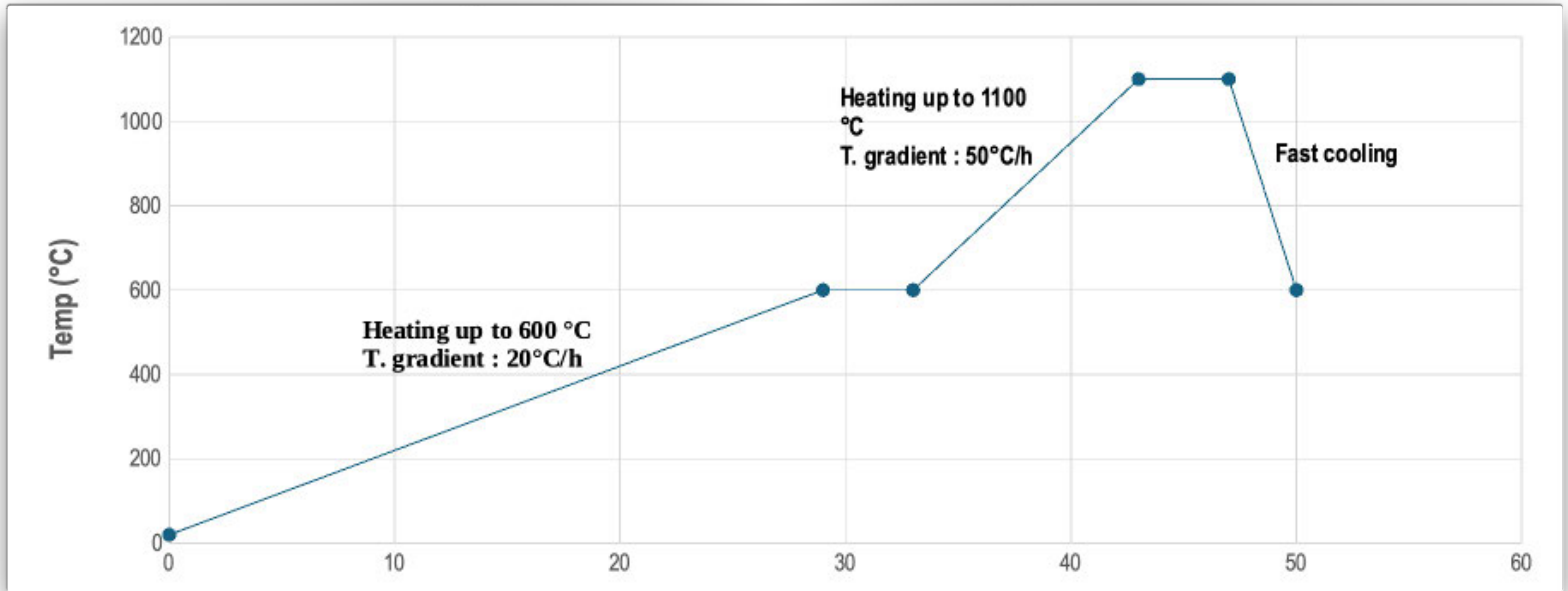
A **GEOPOLYMER REPAIR MORTAR** DESIGNED FOR CONCRETE RESTORATION IN HIGH-TEMPERATURE ENVIRONMENTS





- Compressive strength > 50 MPa
- Thermal shock resistant
- Fireproof
- Heat resistant > 1200 °C
- Ready in 24 h at room temperature





CUSTOMER'S OVEN TEST

Composition

Slag based geopolymer binder

Basalt

Synthetic aggregate originating from the iron and steel industry

Silica sand

Challenges

Mixing - installation

A **GEOPOLYMER MORTAR**
DESIGNED FOR CONCRETE
PATCHING IN HIGH-
TEMPERATURE
ENVIRONMENTS



- Compressive strength > 60 MPa
- Thermal shock resistant
- Fireproof
- Heat resistant > 1200 °C
- Ready in 24 H at ambient temp.



GEOTERIA

GEOT**40**



A **GEOPOLYMER RESIN** FOR MOULDED OBJECTS AND FOR FIBRE COMPOSITES.

Composition

Metakaolin MK-750 based geopolymer (Si:Al =2:1)

Marble dust

Challenges

Not suitable for all fiber types



A **GEOPOLYMER REPAIR MORTAR** FOR ENVIRONMENTS SUBJECTED TO CHEMICAL STRESS.



- Compressive strength > 50 MPa
- Acid resistant
- Low thickness application
- Ready in 24 h at room temperature



Composition

Slag based geopolymer binder

Basalt

Micronized recycled glass

Challenges

Mixing - installation

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