



PYROTEK FS980 REFRACTORY

TWO-PART FUSED SILICA MORTAR FOR REFRACTORY REPAIR AND MAINTENANCE

Pyrotek FS980 is a two-component refractory mortar used to repair cracks or fill joints between refractory elements. It is a fused silica based, self-drying product, applicable up to temperatures of 750°C.

BENEFITS

- Durable and long-lasting in molten metal applications
- Excellent binding properties to most substrates
- Self-drying and hardening, in ambient air

PACKAGING & STORAGE

- Standard packaging: 4kg fused silica powder (Part A) / 1kg liquid binder (Part B)
- Store in cool, dry locations
- Best if used within one (1) year of production



SPECIFICATIONS

Chemistry	Grain Size	Max Service Temperature	Working Time After Mixing
98% SiO ₂ , 1.8% Al ₂ O ₃ , 0.1% Alkalies, <0.1% Fe ₂ O ₃	≤ 0.3mm (50 Mesh)	750°C (1400°F)	Approximately 1 hour at 20°C, using standard mixing ratio (4:1)

MIXING INSTRUCTIONS

The standard mixing ratio for this product by weight is 4:1 Part A to Part B. Always prepare only the amount necessary in order to reduce waste.

1. In standard packaging, mix entire 4kg bucket of white fused silica powder (Part A) with entire 1kg liquid colloidal silica (Part B). For a thicker paste, reduce the quantity of Part B up to a maximum ratio of 6:1 Part A to Part B.
2. Continue to mix the components until a homogenous paste is obtained.
3. To extend the working time of a mixed batch, cover the container whenever possible.

USAGE INSTRUCTIONS - REFRACTORY JOINTS

1. Install the first launder refractory piece.
2. Place 3-4 millimeters of Pyrotek FS980 Refractory on the end of the launder refractory.
3. Press the second refractory piece into place until a joint thickness of 2-3 millimeters is achieved.
4. Remove excess mortar until the surface is smooth.
5. Repeat the process for the remaining joints.

USAGE INSTRUCTIONS - REPAIRING CRACKS

1. Carefully clean the substrates being repaired to remove all dust, mastic, coating or other materials.
2. Use a brush to wet the surfaces being repaired with Part B liquid.
3. Fill the crack completely with the mixture of Part A and Part B.
4. Smooth the repaired surface with a clean trowel.

DRYING/PREHEATING INSTRUCTIONS

Pyrotek FS980 Refractory is a self-drying mixture that should not be force dried with an open flame. Applying an open flame to the mortar could cause it to crack. Once the mortar has completely dried, the equipment should be preheated prior to use.

HEALTH AND SAFETY

Prior to use refer to the product safety data sheet for proper handling and required personal protective equipment.

