

# TECHNICAL BULLETIN – M 520 A

## **RESIBOND® HF Acid Resistant Mortar**

# **Product Description**

**RESIBOND®** HF Acid Resistant Mortar is a four-component mortar designed to provide exceptional chemical resistance, and excellent strength retention at elevated temperatures. The liquid binder, RESIBOND HF Resin, is a vinyl ester resin that has superior resistance to acids at operating temperatures up to 280°F (138°C). The filler, RESIBOND HF Powder, is a carefully selected, size graded carbon powder with special additives to enhance trowel-ability and prevent "bleeding" or mortar running out of brick joints.

### Application

A standard unit of RESIBOND HF Mortar consists of one (1) 45 lb. (20 kg) pail of resin, two (2) 45 lb. (20 kg) bags of powder, 16oz. (480 ml) accelerator and 2 oz. (60ml) promoter. RESIBOND HF Resin can also be shipped in 500 lb. (227 kg) drums.

RESIBOND HF resin component is shipped non-promoted unless specifically noted on the container. Resin must be promoted prior to use, or the mortar will not set. Promote resin by adding 2 oz. (60ml) of promoter per 5-gallon pail of resin and thoroughly mix with a drill type mixer for a minimum of two (2) minutes. The resin should be uniform in color after mixing.

Promoted RESIBOND HF resin and powder are mixed in a ratio of 1 part resin (by weight) to 2 parts powder. Weigh 1-part RESIBOND HF resin into clean, dry container. Add 2 parts of RESIBOND HF powder. While mixing, add accelerator at 3 oz. per 1 gallon of resin. Mix for 3 minutes for a thick, trowelable consistency.

Best results are obtained by mixing small batches of mortar, which can be used in 20 to 30 minutes. Joints between brick should be made as thin as practical, preferably 1/8" (3 mm). Once the mortar has started to set, it cannot be reworked and must be discarded. To clean tools, wipe with MEK or sandblast.

### Safety

RESIBOND HF Resin is flammable. Therefore, flames, sparks, and ignition sources should be kept at a distance. Provide adequate ventilation and wear proper safety equipment. Material Safety Data Sheets must be read before use.

### **Physical Data**

Bulk Density	95 lb/ft3	1,520 kg/m3
Compressive Strength	9,000 psi	62 MPa
Coefficient Thermal Expansion	3.6*10-6 in/in/°F	6.5*10-6 mm/mm/°C
Modulus of Rupture	2,500 psi	17 MPa
Tensile Strength	1,000 psi	6.7 MPa
Water Absorption	2.0%	2.0%
Shrinkage	<1.0%	<1.0%
Color	Black	Black

\*The Physical Data derived by using ASTM test methods: C-905 Bulk Density, C-579 Compressive Strength, E-228 CTE, C-580 MOR, C-307 Tensile Strength and C-143 Water Absorption.

#### Note

The information contained in this bulletin is believed to be accurate and reliable but is not to be construed as implying any warranty or guarantee of performance. Data are subject to reasonable variations and should not be used for specification purposes.

#### Trademarks

Registered trademarks contained in this document are owned by Knight Material Technologies LLC in the United States and may be registered in another jurisdiction, unless otherwise stated. Refer to our website for trademark details: www.knightmaterials.com