

CE- 206
12/13 Supersedes 03/99

FURALAC[®] FN MORTAR

DESCRIPTION

FURALAC FN Mortar is a unique proprietary modified polyfurfuryl alcohol resin based chemical-resistant mortar. It contains an all-carbon filler system. FURALAC FN is resistant to a wide range of chemicals, and exhibits a significant increase in temperature resistance over other furan resin based mortars. **Consult Corrosion Engineering specification [CES-358](#) for complete installation details.**

AREAS OF USE

FURALAC FN Mortar is used in constructing chemical-resistant masonry linings where the combination of the physical properties of a resin mortar are desired, but with higher temperature capabilities than conventional resin mortars.

Typical applications include hot gas inlets for quench vessels, wet gas scrubbers, humidifying towers, and reaction tanks. FURALAC FN can also be used in floor linings where corrosion resistance and temperature resistance are of prime importance.

OUTSTANDING FEATURES

- FURALAC FN Mortar resists temperatures to 420°F (215°C) continuous, and 480°F (220°C) for short (intermittent) exposures.
- Provides a dense, hard, mortar joint with excellent bond to brick surfaces and excellent abrasion resistance.
- FURALAC FN Mortar has excellent chemical resistance to both acids and caustics.
- Easy to use. Good handling characteristics helps to insure quality.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	FURALAC FN Mortar
Color	Black
Density (ASTM C138)	96 lbs/cu. ft. (1538 kg/m ³)
Work life / Set time @ 70°F (ASTM C308)	25 minutes / 2 hours
Compressive strength (ASTM C579)	>8,000-9,000 psi (55-62 MPa)
Tensile strength (ASTM C307)	>1,000-1,100 psi (6.9-7.6 MPa)
Flexural strength (ASTM C580)	>2,600-2,800 psi (18-19 MPa)
Bond strength to brick (Pull Blocks)	>400-500 psi (2.8-3.4 MPa)
Water absorption (ASTM C413)	0.6%
Maximum service temperature	420°F (215°C) continuous 480°F (220°C) intermittent

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

PRODUCT	CODE	PACKAGING	MIX RATIO*
FURALAC FN Resin	19572 19571	49 lb (22.3 kg) pail 525 lb (238.6 kg) drum	1.8 : 1.0 (Powder : Resin) by weight.* A unit (137 lb) consists of one x 49 lb pail of resin and 2 x 44 lb bags of powder
FURALAC FN Powder	19561	44 lb (20.0 kg) bag	
F/P Mortar Accelerator (for low temperatures)	22179	45 lb pail	20-25 parts liquid FURALAC FN Resin to 1 part F/P Accelerator by weight (4-5% of resin). 1 pail is sufficient for 20-25 pails of resin. NOTE: Mix Resin and Powder before adding Accelerator. <u>DO NOT</u> add Accelerator direct to Resin as this may result in a violent reaction.

*NOTE: Mix ratios vary due to ambient air temperatures and the handling preferences of individual bricklayers. The above information is provided as a general guide only. For usage rates for specific masonry units, consult Corrosion Engineering estimating guide CES-145.

SAFETY PRECAUTIONS / DISCLAIMER

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and [material safety data sheets](#) before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.



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