



PRODUCT INFORMATION

CE-129
10/18 Supersedes 12/13

FURALAC™ SPECIAL MORTAR

DESCRIPTION

FURALAC Special Mortar is a versatile two component, chemically resistant furan resin based brick mortar. It is widely used as multi-purpose chemical resistant mortar for bonding chemically-resistant brick or tiles and renders excellent bond strength, high chemical resistance, and reliable curing and handling characteristics. FURALAC Special Mortar powder contains no carbon fillers, and is suitable for use where the broad chemical resistance of a non carbon filled furan resin mortar is required

FURALAC Special is ideally suited for use against lead and nickel/chrome alloy membranes where carbon filled mortars can create a corrosive "electrolytic cell", or anywhere else a non carbon filled furan mortar is desired. Consult Corrosion Engineering specification CES-358 for complete installation details.

AREAS OF USE

FURALAC Special Mortar is used in the construction of chemically resistant brick and tile floors, trenches, tanks, process vessels, chimney linings and equipment linings. It is ideal for use in the installation of chemically resistant floors. FURALAC Special Mortar has broad chemical resistance and is suitable for most acids and weak-moderate alkalis. Consult Corrosion Engineering for general guidelines as to chemical resistance for FURALAC Special Mortar.

OUTSTANDING FEATURES

- Excellent physical properties - high bond strength to acid brick, low shrinkage and absorption. Excellent workability and handling properties, even in low temperature applications. Easy clean up.
- Excellent chemical resistance to acids, alkalies, solvents and low concentrations of oxidizing chemicals.
- Special F/P Accelerator may be added to the mortar during field mixing for installations where temperatures are between 32°F-55°F.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	FURALAC Special Mortar
Color	Black
Density (ASTM C138)	115 lb./cu. ft. (1842 Kg/m ³)
Work life / Set time @ 70°F(ASTM C308)	25-35 minutes/ 40-50 minutes
Compressive strength (ASTM C579)	>10,500 psi (72 MPa)
Tensile strength (ASTM C307)	>1,125 psi (7.8 MPa)
Flexural strength (ASTM C580)	>2,500 psi (17 MPa)
Bond strength to brick (Pull Blocks)	>650 - 700 psi (4.5 – 4.8 MPa)
Water absorption (ASTM C413)	0.12%
Maximum service temperature	360° F (182°C)

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

FURALAC Special Mortar	CODE	PACKAGING	MIX RATIO*
FURALAC Resin FURALAC Resin FURALAC Special Powder	19564 19563 19567	44 lb pail 500 lb drum 55 lb bag	3.75:1.0 (Powder : Resin) by weight. A unit (209 lb) consists of 1 x 44 lb pail of resin and 3 x 55 lb bags of powder
F/P Mortar Accelerator (for low temperatures)	22179	45 lb pail	20-25 parts liquid FURALAC 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 directly 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.

