

*CE-128M  
11/12 Supersedes 08/08*

### **FURALAC<sup>®</sup> GREEN PANEL MORTAR**

#### **DESCRIPTION**

FURALAC Green Panel Mortar is a time proven, corrosion-resistant, furan resin based brick mortar. It is widely used as a multi-purpose chemical-resistant mortar for bonding acid-brick or tiles utilizing the brick-layers method of construction. The carbon based filler, when mixed with FURALAC Resin, renders exceptional physical properties, excellent chemical resistance, and reliable curing and handling characteristics. It contains no silica and is suitable for both concentrated alkali and hydrofluoric acid environments. **Consult Corrosion Engineering specification [CES-358](#) for complete installation details.**

#### **AREAS OF USE**

FURALAC Green Panel Mortar is used in the construction of chemically resistant brick and tile floors, trenches, tanks, process vessels, chimney linings and equipment linings. FURALAC Green Panel Mortar has broad chemical resistance and is suitable for most acids and alkalis. Consult chemical resistance guide CER-122 for general guidelines as to chemical resistance for FURALAC Green Panel Mortar.

#### **OUTSTANDING FEATURES**

- Excellent physical properties - high bond strength to acid brick, low shrinkage and low absorption. Desirable low density results in higher yield per mixed pound of mortar.
- 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 0 - 12°C.

**TYPICAL PHYSICAL PROPERTIES**

PROPERTY	FURALAC Green Panel Mortar
Color	Black
Density (ASTM C138)	1.47
Work life / Set time @ 21°C(ASTM C308)	25-40 minutes / 40-85 minutes
Compressive strength (ASTM C579)	>90.0 MPa
Tensile strength (ASTM C307)	>9.0 MPa
Flexural strength (ASTM C580)	>25 MPa
Bond strength to brick (Pull Blocks)	>11.0 MPa
Water absorption (ASTM C413)	0.15%
Maximum service temperature	180°C

**ESTIMATING/PACKAGING THEORETICAL QUANTITIES—NO OVERAGE ALLOWANCE**

PRODUCT	CODE	PACKAGING	MIX RATIO*
FURALAC Resin	29557	20 kg pail	1.7-2.0:1.0 (Powder:Resin) by weight.*
FURALAC Resin (export)	29558	20 kg TH pail	
FURALAC Resin	19563	227 kg drum	A 0.04 cu m unit (60 kg) consists of 1 x 20 kg pail of resin and 2 x 20 kg bags of powder
FURALAC Green Panel Powder	29556	20 kg bag	
F/P Mortar Accelerator (for low temperatures)	22179	20.5 kg 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.  <b><u>DO NOT</u> add Accelerator directly to Resin as this may result in a violent reaction.</b>

**\*NOTE:** Mix ratios vary due to ambient air temperatures, and the handling preferences of individual bricklayers - some bricklayers may vary mix ratio according to specific situations. 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.



Corrosion Engineering | 300 Stevens Drive, Suite 310, Lester, PA 19113  
 +1-610-833-4001 Phone | +1-610-833-3040 Fax | corrosion-engineering.com