



# Furalac™ Red Panel Grout

## SELECTION & SPECIFICATION DATA

<b>Type</b>	Polyfurfuryl alcohol floor grout
<b>Description</b>	Furalac Red Panel is a 2-component carbon filled Polyfurfuryl alcohol-based tile and paver floor grout.
<b>Uses</b>	<ul style="list-style-type: none"><li>• Suitable for brick and tile flooring routinely exposed to acid and alkali-based sanitizers</li><li>• Breweries and distilleries</li><li>• Bottling plants</li><li>• Meat and poultry processing plants</li><li>• Pharmaceutical plants</li><li>• Chemical process facilities</li></ul>
<b>Features</b>	<ul style="list-style-type: none"><li>• Broad chemical resistance</li><li>• 2 component, no separate hardener is required</li><li>• Service temperature to 350°F (177°C)</li><li>• Easy to mix and apply</li><li>• Fast setting</li><li>• Optional cold room accelerator available when temperatures are below 50°F (10°C)</li><li>• Shelf life stable</li></ul>
<b>Limitations</b>	<ul style="list-style-type: none"><li>• Not suitable for vertical wall tile applications.</li><li>• Take care when using in operating food plants due to product odor until full cure is achieved</li><li>• Not for use beyond its chemical resistance capabilities, not suitable for oxidizing acids. Consult Armor with specific questions.</li></ul>

## INSTALLATION GUIDANCE

<b>Reference Specifications</b>	CES-309 Installation of direct bond tile floors
<b>Installation Conditions</b>	Furalac Red Panel Grout is formulated for ideal handling at 70°F (21°C). Materials and substrate should be acclimated to the air temperature prior to installation, and the air temperature should be between 50°F (10°C) and 90°F (32°C) during installation and cure. Bricks or tiles must be clean, dry and neutral pH.
<b>Ratio</b>	1.0 resin: 1.5 powder by weight. Mix ratio may be varied slightly by adjusting powder loading to suit individual tile setter preferences.
<b>Mixing</b>	Pour measured quantity of resin into clean, dry mixing vessel. Slowly add measured quantity of powder to resin and mix thoroughly. Mix until filler is thoroughly wetted and grout is creamy, free of lumps and trowelable.
<b>Work Life</b>	25 minutes at 70°F (21°C) Work life is shorter at higher temperatures.
<b>Cleanup</b>	Xylene or MEK.

## CURE TIME

Brick or Tile Temperature	Initial Set	Full Cure
70°F (21°C)	40 minutes	7 days

## SAFETY

<b>Safety</b>	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 safety data sheets before using.
<b>Ventilation</b>	Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.



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## PACKAGING & ESTIMATING

Product	Code	Packaging
Furalac Resin	29557	44 lb (20.0 kg) pail
Furalac Green Panel Powder	29556	44 lb (20.0 kg) bag
F/P Mortar Accelerator	22179	45 lb (20.4 kg) pail

A 220 lb (2.68 cu ft) unit of Furalac Red Panel Grout consists of 2 x 44 lb (20.0 kg) pails of Furalac Resin and 3 x 44 lb (20.0 kg) bags of Furalac Green Panel Powder.

For low temperature or faster work life/set time, add 1.0 part of F/P Mortar Accelerator to 20-25 parts of Furalac Resin (4-5% by weight of resin). Mix resin and powder BEFORE adding accelerator. Do not add F/P Accelerator direct to resin as this may result in a violent reaction.

**Theoretical Coverage** Consumption will vary based on tile size and joint width. Consult estimating guide CES-145 for assistance or consult with Armor.

**Storage & Shelf Life** Maintain products in original packaging and sealed until ready for use. Estimated shelf life of components is 12 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.

If there is any question with respect to the quality of the components check reactivity prior to use. For assistance consult with Armor.

## TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Color	Black
Density, ASTM C138	82 lb/ft <sup>3</sup> (1314 kg/m <sup>3</sup> )
Compressive strength, ASTM C579	>6,000 psi (41 MPa)
Tensile strength, ASTM C307	>500 psi (3.5 MPa)
Flexural strength, ASTM C453	>800 psi (5.5 MPa)
Adhesion to wire cut brick, ASTM C321	>600 psi (4.1 MPa)
Water absorption, ASTM C413	0.5% by weight

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