

# Technical Data Sheet

## FSA FIRECOAT Exterior

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<p><b>Overview</b></p>	<p>FSA FIRECOAT Exterior is a game-changing solution to help combat devastating impact of wildfires, structural fires, and urban conflagration. It is an exterior water-based fire-retardant paint with a grey finish for fire protection of a variety of substrates. When exposed to flame or radiant heat, FSA FIRECOAT Exterior forms an outer char layer, protecting the underlying surface and putting a stop to the spread of the flames. FSA Firecoat, painted to a nominal thickness of 1 mm dry film and 2 mm wet film thickness, satisfies the requirements of AS 3959:2018 for BAL 12 to BAL 40 for wall and suitable applications.</p>
<p><b>Key Advantages</b></p>	<ul style="list-style-type: none"> <li>• Extreme fire protection</li> <li>• Water-based</li> <li>• Free from halogenated flame retardants</li> <li>• FM Global Certified</li> </ul>
<p><b>Where to use FSA FIRECOAT Exterior</b></p>	<p>FSA FIRECOAT Exterior can be applied on exterior surfaces, such as natural and composite timber, bricks, concrete, plasterboard, masonry, and structural steel, with or without compatible topcoats.</p>
<p><b>Application Procedure</b></p>	<p><b>Surface preparation</b></p> <p>Prior to application all surfaces should be clean, dry, free from contaminants (e.g., dust, oil, wax, grease, dirt, resin, etc.) and any loose or flaking paint. Existing coatings with poor adhesion must be removed. Timber surface should be completely dry prior to the application.</p> <p><b>Mixing</b></p> <p>Prior to use, stir paint thoroughly. Ensure paint is mixed from the bottom to the top of the pail.</p> <p><b>Application condition.</b></p> <p>Only apply and cure FSA FIRECOAT Exterior at temperatures above 10 °C and below 35°C throughout the entire painting process with good air circulation and a relative humidity no greater than 75%. Avoiding extremely hot or cold conditions is advisable for optimal results.</p> <p><b>Application method</b></p> <p>FSA FIRECOAT Exterior can be applied by brush, roller, or airless spray. Do not thin FSA FIRECOAT Exterior.</p> <p><b>Brush:</b> Use top quality polyester/nylon blend brush or similar.</p> <p><b>Roller:</b> Use 20 mm or greater nap roller.</p>

	<p><b>Airless spray:</b> Use airless spray with a minimum 1 GPM rating at 3000 psi such as Graco 795, 1095 or similar. Tip is 531 or greater with a pressure of 2100 psi or higher. Due to the unique properties of FIRECOAT it is important to use an airless spray gun with the right specification as others may clog.</p> <p>Compatible water-based acrylic paints can be applied as a topcoat for aesthetic purposes. It is recommended to test the chosen topcoat on a small surface to check for compatibility. Allow FSA FIRECOAT to fully dry before applying the topcoat. Refer to Drying Time for details.</p> <p><b>Drying time</b></p> <p>2 to 5 hours. Allow longer drying time under cooler or humid conditions. Temperature ideally should be above 10 °C during application and drying.</p> <p>Make sure the paint is thoroughly dry to touch before applying the next coat. Failure to do so may lead to cracking and peeling between coats.</p> <p><b>Repair</b></p> <ul style="list-style-type: none"> <li>• Repair any damage to the substrate if required prior to re-application of FSA FIRECOAT Exterior.</li> <li>• Remove any loose material or paint flake and sand through any rough edges.</li> <li>• Make sure the surface is clean and dry and apply FSA FIRECOAT Exterior to the damaged area at the intended thickness and as per the manufacturer’s specification.</li> </ul>												
<p><b>Coverage &amp; Coating Thickness</b></p>	<p>To achieve the desired fire protection, the minimum dry film thickness (DFT) must be achieved upon complete drying. It is difficult to determine the DFT during application, but it can be estimated at wet state using a wet film thickness (WFT) gauge. Refer to the website for information on how to use a WFT gauge.</p> <p>Each coat should achieve a coverage of 1.43 Square Metres Per Litre.</p> <table border="1" data-bbox="649 1333 1451 1556"> <thead> <tr> <th>Fire Protection</th> <th>No. of Coat</th> <th>Minimum WFT per Coat</th> <th>Minimum DFT upon drying</th> </tr> </thead> <tbody> <tr> <td>BAL-29</td> <td>1</td> <td>0.70 mm (or 700 microns)</td> <td>0.34 mm (or 340 microns)</td> </tr> <tr> <td>BAL-40</td> <td>3</td> <td>0.70 mm (or 700 microns)</td> <td>1 mm (or 1000 microns)</td> </tr> </tbody> </table>	Fire Protection	No. of Coat	Minimum WFT per Coat	Minimum DFT upon drying	BAL-29	1	0.70 mm (or 700 microns)	0.34 mm (or 340 microns)	BAL-40	3	0.70 mm (or 700 microns)	1 mm (or 1000 microns)
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<p><b>Cleaning Equipment</b></p>	<p>Wash application tools in clean, cold water, and flush airless spray equipment promptly after painting. Clean and remove any dried product. Wash water should be disposed in accordance with applicable local regulations.</p>												
<p><b>Disposal</b></p>	<p>Avoid release to the environment. Do not pour leftover paint down the drain. Dispose of contents/container at authorized hazardous or special waste collection point in accordance with any local regulation.</p>												
<p><b>Storage</b></p>	<ul style="list-style-type: none"> <li>• Store locked up and away from direct sunlight and extreme heat.</li> <li>• Do not freeze.</li> </ul>												

	<ul style="list-style-type: none"> <li>• Keep containers closed when not in use.</li> <li>• Keep out of reach of children and pets.</li> </ul>
<b>Shelf Life</b>	<ul style="list-style-type: none"> <li>• FSA FIRECOAT Exterior has a shelf-life of 24 months if stored in original sealed containers under the recommended storage conditions above.</li> </ul>
<b>Safety Recommendations</b>	<p>All users should refer to the Safety Data Sheet (SDS) for FSA FIRECOAT Exterior for further safety and handling information.</p> <p>Use only in well-ventilated area. Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Wear protective gloves, protective clothing, eye protection and face protection. Do not handle until all safety precautions have been read and understood. Contaminated work clothing must not be allowed out of the workplace.</p> <p>If exposed or concerned: get medical advice/ attention. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs, get medical advice/attention. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse.</p>
<b>Testing &amp; Results</b>	<p>FSA FIRECOAT Exterior is tested and passed to the following standards:</p> <p>AS 1530.8.1 (BAL 40), Extremely high bushfire rating  AS 5637.1-2015 Fire Classification   Group 1 AS/ANZ 3837  AS 1530.4-2014 – Steel Protection   FRL 120/-/-  AS 1530.4-2014 – Exterior wall system*   FRL -/60/60  ASTM D2898 Method B – Accelerated weathering testing  ISO 5660 - Heat Release &amp; Smoke Production  FM Approvals Standard 4975</p> <p>*Plasterboard wall system: 10 mm standard grade plasterboard over 35 mm x 70 mm timber framing with glass wool insulation.</p>
<p><b>Disclaimer:</b> While every care is taken and users are always directed to follow the instructions for application explicitly, Flame Security International Pty Ltd has no direct control over the end application of the product. Flame Security International Pty Ltd nor any of its employees, contractors or agents are responsible or liable for any claim, loss or damage which might arise from the use of FSA FIRECOAT Exterior.</p>	

## Contact Details



### Australia

University of NSW, F10 Level 5, Kensington 2052  
**Phone:** +61 419 726 465  
**Email:** [info@flamesecurity.com](mailto:info@flamesecurity.com)  
[www.flamesecurity.com](http://www.flamesecurity.com)

### Europe

Valhallavägen 2, 792 32 Mora  
**Phone:** +46 705 542 540  
**Email:** [info@flamesecurity.com](mailto:info@flamesecurity.com)  
[www.flamesecurity.se](http://www.flamesecurity.se)