Product Description
Intumescing and fire-retardant paint that retards flame spread on combustible and non-combustible materials. Inhibits the spread of the flame by forming a thick insulating crust, which retards the combustion of materials.

Advantages
• Hinders flame propagation on the surface and combustion of materials.
• Will not lose its flame-retardant properties when washed or when exposed to humid conditions or heat.
• Diffuses light; excellent for masking a number of imperfections.
• Easy to apply.
• Dries quickly and has very little odour.
• High viscosity and great hiding power.
• Water-based product which allows tool clean-up with water.
• Low VOC content complies with the Canadian Volatile Organic Compound (VOC) Concentration Limits for Architectural Coatings Regulations requirements.

Available Colour
609-114 White

Projects

Environment
Interior only.

Use
New and maintenance work.
Residential and commercial sites.
Walls and ceilings of any room that do not require frequent cleaning.

Surfaces
Properly primed surfaces: drywall and fibre boards, wood, acoustical tiles, concrete, and stucco.
Surfaces in good condition previously painted with a water-based product and properly prepared.

Notes
Do not apply directly over steel, iron or other metals.
Not formulated to be used on floors.
Some colours, or drastic colour changes, may require additional coats of paint. Topcoating on this paint will affect its fire retardant performance.
Do not mix with other paints or thinners.

Certifications*
Underwriters Laboratories of Canada Inc. classified; CAN/ULC-S102 Coatings, Fire Retardant BMQXC.R17022.

Technical Specifications (21°C (70°F))

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Opaque</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gloss Level</td>
<td>Flat finish</td>
</tr>
<tr>
<td>• Gloss at 60°:</td>
<td>0 to 5%</td>
</tr>
<tr>
<td>• Gloss at 85°:</td>
<td>Not available</td>
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<tr>
<td>Composition</td>
<td>Diluent: Water</td>
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<tr>
<td></td>
<td>Binder: Polymer emulsion (latex)</td>
</tr>
<tr>
<td>Volatile Organic Compounds (VOCs)*</td>
<td>According to ASTM D3960-05: &lt; 50 g/L</td>
</tr>
<tr>
<td></td>
<td>Canadian regulation: &lt; 350 g/L</td>
</tr>
<tr>
<td></td>
<td>Addition of colourant will introduce VOCs.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Ready to use</td>
</tr>
<tr>
<td>Density*</td>
<td>1.3 ± 0.1 kg/L</td>
</tr>
<tr>
<td>Solids by Volume*</td>
<td>47%</td>
</tr>
<tr>
<td>Solids by Weight*</td>
<td>58%</td>
</tr>
<tr>
<td>Flammability</td>
<td>Fire retardant</td>
</tr>
<tr>
<td>Flash Point*</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Spreading Rate per Coat</td>
<td>13 to 14 m² (132 to 150 ft²) at 1 mil D. F. T.</td>
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<tr>
<td></td>
<td>18.5 m² per litre at 1 mil D. F. T.</td>
</tr>
<tr>
<td></td>
<td>Coverage figures do not include loss due to surface irregularities and porosity or material losses due to application method or mixing.</td>
</tr>
<tr>
<td>Film Thickness requirements*</td>
<td>272 to 309 μm</td>
</tr>
<tr>
<td></td>
<td>10.7 to 12.2 mils</td>
</tr>
<tr>
<td></td>
<td>128 to 145 μm</td>
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<tr>
<td></td>
<td>5 to 5.7 mil</td>
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<tr>
<td>Drying Time*</td>
<td>30 to 60 minutes</td>
</tr>
<tr>
<td></td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>1 to 2 hours</td>
</tr>
<tr>
<td></td>
<td>14 days</td>
</tr>
<tr>
<td></td>
<td>When relative humidity is higher than 50%, double the required time.</td>
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<tr>
<td></td>
<td>Drying times listed may vary depending on temperature, humidity, film build, colour, and air movement.</td>
</tr>
</tbody>
</table>

*Technical data source: 609-114
**Surface Preparation**

Surfaces must be clean and dry. Remove loose and peeling paint, dirt, dust, mildew, oil, wax, concrete curing agents and bond breakers, chalk, efflorescence and other surface contamination.

**Concrete and masonry:** New surfaces must age at least 28 days, be thoroughly dry and free of any efflorescence salts. Clean the concrete surfaces per ASTM Standard Practice D4258: Standard Practice for Surface Cleaning Concrete for Coating. Vacuum cleaning, water cleaning, detergent water wash, power washing, steam cleaning, hand tool and mechanical cleaning are acceptable cleaning methods. Remove the dust from the surface prior to prime.

**Painted surfaces:** Strip, scrape or remove all loose and peeling paint, and sand to smooth edges. Sand to smooth edges.

Eliminate stains caused by mildew with a solution of household bleach (1 part household bleach to 3 parts of water). Wear rubber gloves and eye protection. Rinse thoroughly with clear water and let dry completely.

Remove all surface contaminants by washing with an appropriate cleaner. Rinse thoroughly with water and allow to dry.

Sand rough areas and dull glossy surfaces or alkyd painted surfaces to ensure adhesion. Clean up carefully sanding residue.

Repair damaged areas and spot prime or prime total surface, where necessary.

**Wood:** Unpainted wood or wood in poor condition should be sanded smooth and clean up carefully to remove dust. If wood exudes resin, scrape the excess and clean surface with alcohol or paint thinner prior to seal knots and sap streaks with shellac.

**PRECAUTION:** Dry sanding will give rise to dust and/or hazardous fumes. Wear suitable respiratory protective equipment. Clean up carefully with a HEPA vacuum and a wet mop. Follow these instructions to control exposure to hazardous substances that may be released during surface preparation. **WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. **LEAD IS TOXIC.** EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a properly fitted NIOSH-approved respirator and prevent skin contact to control lead exposure. Contact a regional Health Canada office for more information.

Before use, cover or mask surfaces that are not to be painted, be sure to read and follow the instructions and warnings on the label and Safety Data Sheet.

Prime entire surface with the appropriate primer.

**Contact your local representative for any additional surface preparation guidelines.**

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**Systems recommendation according to surfaces**

**Gypsum board, dry joint cement or stucco:**
- 1 coat: Sico Ecosource 850-130, Sico Expert 870-130, 870-177 or 870-799;

**Concrete and masonry:**
- Rough surfaces: Sico Expert block filler 675-115;
- Smooth surfaces: Sico Ecosource 850-130, Sico Expert 870-130, 870-177 or 870-799;

**New or bare wood:**
- Bare wood (except rich in tannins wood, such as cedar or redwood): Sico Ecosource 850-130, Sico Expert 870-177 or 890-114; some wood species, prone to staining, may require two coats. Let dry each coat for 12 to 16 hours.
- Bare wood (all): Sico Expert primer 880-124;

**Previously painted surfaces in good condition:**
- Previously painted surfaces in good condition (latex): No primer is required.
- Previously painted surfaces in good condition (alkyd): Sico Expert primer 890-114 or 870-177;

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**Recommendations**

**Application Conditions**

**Temperature:** 10 to 30°C (50 to 86°F) (ideal 20°C ± 5°C [68°F ± 9°F])

Relative humidity: Ideal between 15 and 55%, maximum 85%.

Maintain these conditions during the application and the following 24 hours. Low temperature, high humidity, thick films or poor ventilation extend drying time.

**Tools**

- Paintbrush: Synthetic bristles (nylon, polyester)
- Roller: - Walls: 10 mm (3/8 in.);
  - Ceilings: 13 mm (1/2 in.).
- *Spray (airless equipment)
  - Tip size: 0.015 to 0.021 in.;
  - Pressure: 1500 to 2000 psi.

Always use top quality application tools.

*Spray recommendations may vary from figures listed depending on equipment manufacturer.

**Cleaning Tools**

Remove as much product quantity as possible and clean tools with lukewarm soapy water immediately after use.

**Storage and Transportation**

Keep in a dry and ventilated area, between 10 and 30°C (50 and 86°F). Under such conditions, unopened containers may be stored up to 2 years from manufacturing date.

**PROTECT FROM FREEZING.**

**Disposal**

Consult your municipality in order to dispose of residues according to environmental regulations. Do not pour down a drain or storm sewer.
**Application**

FOR PROFESSIONAL APPLICATION ONLY. NOT INTENDED OR LABELED FOR CONSUMER USE.

Do not thin. Stir thoroughly before use and occasionally during use. Pour the quantity of paint needed into another container to avoid contaminating the original paint container. Keep containers closed when not in use.

Apply two coats by complying with its spreading rate, leaving no bare spots or excessively coated areas.

Provide adequate ventilation. Observe drying time between coats. Low temperatures or high humidity will affect drying time.

For more information, visit the website at www.sico.ca or call our customer service: 1-800-463-7426.

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**Safety Measures**

Store locked up. Do not handle until all safety precautions have been read and understood warnings on the label and Safety Data Sheet (SDS). For workplace use, an SDS are available from your retailer, through our website or by calling 1-800-463-7426.

Keep out of the reach of children. Use only in well-ventilated area. Keep containers tightly closed and sealed until ready for use. Wear personal protective equipment as required; gloves and eye or face protection. Avoid contact with skin and clothing. Avoid breathing spray or mists. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

**Warning:** Suspected of causing cancer. Emits toxic fumes when heated.

**First aid treatment:** If you feel unwell or in case of proven or suspected overexposure: Consult a physician.

Emergency spill information: 1-514-645-1320 or 1-800-463-7426.

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**Surface Maintenance**

- Wait for its full curing before washing the product or testing its adhesion: minimum 14 days depending on temperature and relative humidity (longer in conditions of high humidity or low temperature). Use a non-abrasive cleaner and a soft cloth. The use of a cleanser or a technique that is too abrasive affects the appearance of the surface.
- If required, touch up bare areas with primer and apply another coat on the whole surface.

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<table>
<thead>
<tr>
<th>Material Details</th>
<th>Classification or Rating (when applied to Douglas Fir)</th>
<th>Classification or Rating (when applied to 11 mm OSB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Flame Spread</td>
<td>Smoke Developed</td>
</tr>
<tr>
<td>Sico Expert 609-114 applied one coat at 3.7 m²/litre</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

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