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INNOVA-FR 41 AG®

(MULTI PURPOSE LATEX FIRE PROTECTIVE COATING)

INNOVA-FR 41AG® is a unique one-component latex flame retardant – intumescent coating based on proprietary and patented, non-halogenated phosphate technology. When exposed to a fire condition, INNOVA-FR 41AG® expands to form a robust char insulation layer, encapsulating the substrate from the effects of rapid flame spread and smoke evolution. The flame retardant active ingredients within INNOVA-FR® products are not water soluble and will not leach out over time.

INNOVA-FR 41 AG® - FEATURES & ADVANTAGES

- Second generation, patented intumescent coating using monomer component
- Strong adhesion to metal, plastics, or wood; polar and non-polar composites
- An efficient thermal sealant for use on rigid and flexible foam substrates
- Excellent flexibility and elongation properties; can be used to coat thin films
- Very good outdoor weathering properties; no loss on FR values over time
- Environmentally friendly rated and containing no heavy metals or halogens
- Excellent freeze thaw characteristics; can be reused if initially frozen
- Very low volume of smoke evolved (<20%) vs. conventional halogen coatings
- Easy to apply by conventional airless spray gun; continual mixing is not required

SPECIFICATIONS

% Solids	60
Viscosity @ 25°C	2500 to 3000 cps (Brookfield #4 spindle @ 20 rpm)
Working life @ 25°C	4+ hours
Tack free set time @ 25°C	6 hours
Full cure @ 25° C	24 hours
Specific gravity	1.2

TYPICAL PROPERTIES – 5 MIL THICK COATING

Hardness, Shore D	60
Peel strength	6 lbs. per linear inch
Elongation to break	1%
Char initiation temperature	300° C

PERFORMANCE DATA

UL 94 V-0 *Vertical Burn Fire Rating for 5 mil coating on flexible polyethylene (PE) and polypropylene (PP) foams*

Zero seconds burn time (1st and 2nd pass); no measureable amount of smoke evolved

UBC 26-2 *Thermal Barrier Index Fire Rating – 18 minutes*

Successfully passed this 15 minute Uniform Building Code thermal insulation fire test with a 25 mil coating composite on 1/2 inch orientated strand board (OSB) applied to 4 inch thick rigid polyurethane foam insulation.

ASTM E-84 *Steiner Tunnel Flame Spread and Smoke Measurement Test (5 mil coating on cement board)*

Class A rating:

Flame spread < 25 units

Smoke evolution < 50 units

Supplemental Application Information

Mix well, starting at low speed first, before application; do not aerate. Continual mixing is NOT required. Pot life of the material is four - five hours, dependent upon the application temperature (45° F to 95° F). Lowest coverage recommended is 3 to 5 mils. However, to ensure complete protection, a 20 mil dried film coating is recommended (circa 110 – 120 square foot per gallon). The substrate surface itself should be prepared in accordance with SSPC SP2 or SSPC SP3 procedures. Care should be taken to ensure the removal of any and all contaminants such as loose scale, primers, solvents, oils, or grease that may interfere with the adhesion of the flame retardant coating. INNOVA-FR 41AG® however is extremely tolerant of compromised surfaces and will provide excellent protection over tight adhering rust or most existing coatings in sound condition.

Post 9/11 evaluations of fireproofing materials lead to the conclusion that adhesion, weathering, and impact resistance are key to the selection of a superior FR coating as in INNOVA-FR 41AG®

Note: Innova-FR is registered trade mark of Selective Technologies, Inc. MJL Industrial, Inc. is the International Marketing Representative for Innova-FR.

The above technical information is correct to the best of our knowledge. It is provided as guidance for use and not to be considered as a warranty or quality specification. This information relates only to the specific material designated and may not be valid for such material used in combination with any other specific materials or in any other process not mentioned above.

Revised: September 1, 2008