

MJL Industrial, Inc.

405 Uxbridge Way

Hockessin, DE 19707, USA

Tel: +1 (302) 234-0898; Fax: +1 (302) 234-4167

www.mjlindustrial.com

E-mail: mjlindustrial@aol.com and webmaster@mjlindustrial.com

INNOVA-FR 41 AG®

Suitable Applications

INNOVA-FR 41AG® is suitable for use in virtually unlimited applications on almost every known and identifiable surfaces, such as wood, composites, drywall, concrete, steel, fabrics, mattress bedding, rigid polyurethane foam, flexible EPDM, PE & PP foams and various other plastics.

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.

A. Buildings: Hospitals, health care facilities, retirement and rest homes, schools, townhouses and condominium developments, public institutions, parking garages.

Applications and Contacts: Since paints and coatings are one dimensional materials, this intumescent coating provides the extra protection of inhibiting flame spread and smoke generation, allowing occupants a better chance of survival in case of fire. Hallways, stairwells, and utility shafts between floors are particularly susceptible because flame spread almost always tends to go vertical, deterring access for exit.

Fire weakens steel, wood, concrete, and other supporting materials without the critical thermal barrier coating to provide resistance to structural failure. Moisture resistance of coating is especially important in the construction of below ground parking structure.

Primary contacts include the relevant architects, site engineers and general building contractors..

B. Marine Vessels, Drilling Platforms: Of all types-yachts, power boats, commercial and naval vessels, oil drilling platforms.

Applications and Contacts: This is an excellent area to explore as there is in effect an existing market for the use of conventional intumescent coatings in this industry. Primary focus would be for below deck applications – Sleeping quarters, kitchen and dining areas, and the engine and fuel storage compartments. Other uses would be composites such as flotation devices, deck cushions, and

bedding.

Moisture resistance favors the use of **INNOVA-FR 41AG®** as the only known intumescent coating, impervious to the long term effects of outdoor weathering, without top coating.

Main contacts would be ship yards, designers & builders, regulatory authorities, and safety commissions responsible for those specific geographic areas.

C. Mass Transit: Buses, school busses, trains, subways.

Applications and Contacts: Interior applications predominantly such as lounge areas, sleeping quarters, engine compartments, including electrical cables. There may also be special flame retardant requirements for general seating, wall partition, and flooring used in specialized vehicles, such as school bus, or senior citizen vans.

Primary contacts should be the builders or local transportation commissions.

D. Polyurethane, EPDM Foam Insulation: Any structure other than a single family home, HVAC conduit lines, power plants.

Applications and Contacts: Used as a thermal and/or ignition barrier applied to rigid spray on foam, complying with local or regional building codes.

Primary contacts are the architects, site engineers, or general contractors.

E. Textiles: Fabrics used in furniture upholstery, curtains, carpets, and cushions.

Applications and Contacts: This coating is also designed for use as a surface treatment or as a backside coating to most textile fabrics. Tenacious adhesion is known as one major benefit. Flexibility of the coating demonstrates its soft texture and good hand properties. The **INNOVA-FR 41AG®** can be easily pigmented to any color and applied on “black out” drapes, commonly used in hotel chains.

Customers reported successful evaluations in the vertical burn NFPA 701 laboratory test protocol. The product was knife coated on a 65:35 Polyester-cotton blend; and test recorded no second burn time, no afterglow, and no dripping of the treated fabrics. The National Fire Protection test in the U.S. is the equivalent on fabric to the internationally recognized UL-94 V-0 test for flammability of plastics materials.

Primary contacts would be the regional testing authorities, fabric manufacturers and textile blenders or compounders.

F. Oil and Gas pipelines: Pipe lines to transport oil and natural gas.

Applications and Contacts: This coating is served as a flame retardant barrier as well as rust proof coating.

Primary contacts would be oil companies, oil field service companies and general contractors.