



"Bringing Firefighting into the 21<sup>st</sup> Century"



**"Construction lumber pressure treated (impregnated) with THERMOFLUX™ will deliver maximum flame resistance over any now available product."**

Most current building codes in the United States are based on the model building code produced by the International Code Council (ICC) (International Building Code® (IBC)) and related International Code® (I-Codes®) documents).

In addition to the documents of the ICC, the National Fire Protection Association's (NFPA's) Life Safety Code (NFPA 101) provides guidelines for life safety from fire in buildings and structures. NFPA also has a model building code known as NFPA 5000. The provisions of the ICC and NFPA documents have become statutory requirements when adopted by local or state authorities having jurisdiction. (For other exterior applications, FRT lumber is tested in accordance with ASTM E 84. An exterior treatment is required to have no increase in the listed flame spread index after being subjected to the rain test of ASTM D 2898).

Please note: At the present time, a commercial treated-lumber product for exterior applications is either treated to improve fire retardancy or treated to improve resistance to decay and insects, not both.

Notwithstanding the above, THERMOFLUX™ is the most advanced product for pressure treating lumber and is designed to provide the best pressure treatment for all lumber applications with **both flame resistance and resistance to the potential of decay and aggregated insect potential.**

### The Lumber Industry

Innovation always generates questions...there is established profit centers associated with the raw product (lumber) that require addressing the way forward:

As the Industry creates a multitude of commercial raw products, always waste residue material is left on the floor. The industry has developed ways to monetize processing residue for various non-related revenue producing channels:

UNTREATED SCRAPS	THERMOFLUX™
For incinerator fuel for heating	<b>Usable</b> (subject to flame spread processing <sup>1</sup> )
For use in particle board construction	<b>Usable</b> (creates a desirable demand)
For furniture manufacturing	<b>Usable</b> (creates a desirable demand)

<sup>1</sup> Guidance must be provided by the lumber processor pursuant to the attained flame resistance rating

## **Additional Advantages**

<i>Non-Toxic</i>	Yes
<i>Non-Aggressive</i>	Yes
<i>Non-Irritant</i>	Yes
<i>Environmentally Safe (EPA1633)</i>	Yes
<i>pH Neutral</i>	Yes
<i>Water thin viscosity</i>	Yes
<i>Usage temperature</i>	Yes: <-29°F to >150°F (<-34°C to > 65.5°C)
<i>Viscosity: Water thin</i>	Yes
<i>pH @ 25°C: 7.2 – 7.9</i>	Yes (Neutral)
<i>Superior storage temps</i>	Yes 32°F to 120°F (0°C to 34.5°C)

*For the first time in the pressure treatment for flame resistance **THERMOFLUX™** offer the world safety against fire never before achievable. This FFC (Fire Fighting Catalyst) Technology, in contrast to the available products in use, provides the said application as a globally usable pressure treatment product for many potential industries: rubber related companies, certain textile industries, Military applications, etc....*