

Code Interpretation Summary

Disclaimer: The following information summarizes relevant sections of building codes. Please note that the language used may not be a direct quote from the code, and this information serves as summary notes; for detailed information, refer to the actual code source.

International Building Code (IBC) sections describe building material requirements and the use of combustible materials within non-combustible building types. When the building frame, support structure, fire-rated assemblies, and fire-rated enclosures are properly designed, Perma-Tread can serve as stair treads, landing planks, deck boards, or floor finishes. Interior or exterior.

1. Construction Types:

- Perma-Tread can be suitable for Types I and II construction (the most stringent construction types) where building elements are primarily noncombustible. Thus, making the product suitable for all other construction types.

2. Exceptions for Types I and II Construction:

- Exceptions in Sections 603 and 805 allow for the use of specific combustible materials, such as interior floor finish and floor covering materials, under certain conditions.

3. Interior Floor Finish and Covering Materials:

- Section 804 specifies the requirements for interior floor finish and floor covering materials. Perma-Tread complies with the specified classifications (ASTM E648), ensuring it meets the necessary standards for flammability.

4. Critical Radiant Flux Requirements

- Perma-Tread can be used for stair treads as it withstands the minimum critical radiant flux required, ensuring safety in stairway enclosures and other designated areas.

5. Stairway Construction:

- Section 1011.7 outlines that stairways should be built with materials consistent with the type of construction. Perma-Tread, being a polymer material, complies with the specified classification (ASTM E648), when utilized as veneer like flooring finish only - this aligns the product with this requirement.

6. Horizontal Building Separation Allowance:

- Section 510.2 permits combustible materials in interior exit stairways if specific requirements, such as a 3-hour fire-resistance-rated construction, are met. Perma-Tread can be considered in such cases.

7. Summary of Combustible Materials:

- Perma-Tread complies with the regulations regarding interior floor finish and covering materials, including the necessary standards (ASTM E648), making it suitable for use in various construction types.

8. Platform Construction:

- Perma-Tread may be applicable for constructing stages and platforms, subject to compliance with relevant code sections.

In conclusion, the use of Perma-Tread as a polymer stair tread finish offers a safe and compliant solution for stair finish treads within buildings when aligned with the specified building code requirements for Types I and II construction. When considering Perma-Tread for all building types, applications, interior or exterior uses, it is important that the project's Authority Having Jurisdiction approves the use of the product.