

Fire Protective Coatings: An Overview

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Structural steel often needs to be fire protected for use in residential and commercial buildings. Fire protective coatings, such as intumescent, cement-based, and epoxy-based coatings, are used to protect steel from fire. Intumescent coatings, which are typically applied to steel members, expand when exposed to fire, forming a protective char layer. Cement-based coatings, which are typically applied to steel members, provide a protective layer that can withstand fire. Epoxy-based coatings, which are typically applied to steel members, provide a protective layer that can withstand fire.

Coating Thickness

Coating thickness is a critical factor in determining the fire resistance of a steel member. The thickness of the coating is determined by the fire resistance rating of the steel member and the type of coating used. The fire resistance rating of a steel member is determined by the fire test results of the steel member. The fire resistance rating of a steel member is determined by the fire test results of the steel member.

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Exterior Intumescent Coatings

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Beth S. Pollak is a former associate editor of *Journal of Steel Construction*.