

# **NDT Inspection Applied in Fireproofing coating systems**

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Today modern buildings and structures have some degree of fire protection in order to: Protect lives Delay possible structural collapse allowing for evacuation Provide areas of temporary refuge in the case of fire Ensure the integrity of escape routes by preventing or delaying the escalation of a fire Protect high-value assets There are two basic types of fire protection: active and passive. Active fire protection includes alarms and detection systems, sprinklers and water deluge systems, firefighting equipment, and foam and powder extinguishers. Passive fire protection (PFP) involves components of structural methods and materials such as concrete, low-density cement, mineral fiber boards, vermiculite cement and ablative and intumescent coatings. Within this conference, we will be reviewing various forms of passive fire protection and how inspect them nondestructively only and not active fire protection. Fire protection is designed into new construction projects, along with refurbishments, extensions, modifications and maintenance. Typically, coatings inspectors are used to inspect the application of fire protection systems, which commonly consist of passive fire protection with the use of liquid or cementitious coatings. The great importance to know and be involved in different kinds of coating protection and the way of inspect them by Nondestructive testing is fundamental to improve in this area, also, there are a great need of certified ones as NDT inspectors for fireproofing systems. I would like to share my knowledge in this area and the combination of technical disciplines with which I work with the great community of professionals in Non-Destructive Testing in the world and thus seek an improvement in security processes and passive protection against fires within the industry. Today I have various certifications as a Level 3 ASNT inspector in various methods, I am also a certified welding inspector by AWS, a coating inspector Level III by SSPC, within which I have endorsements such as a passive fire coatings inspector and coatings inspector in pipe lines