ADH-ANTI FIRE COATING

Fire Retardant Intumescent Coating

Technical Data Sheet

Definition

ADH- ANTI FIRE COATING is a water-based, non-toxic, thin-film intumescent fire-retardant product. It is formulated to meet the fire resistance ratings required for walls, floor/ceiling, and ceiling assemblies, as well as individual structural elements, as specified by the International Building Code (IBC).

Application Areas

It is recommended for use on prepared, unpainted, primed, or previously painted surfaces. **ADH- ANTI FIRE COATING** fire-retardant coating can be applied to drywall, wood, lath & plaster, concrete, brick, pressed metal tin, galvanized steel and aluminum, fiberglass, carbon fiber, and other composite materials. Additionally, it can be used to provide a 15-minute barrier on spray polyurethane foam (SPF) for durations of 1-2 hours.

Thanks to the superior fire-resistant performance of **ADH- ANTI FIRE COATING**, it offers significant material and labor cost savings compared to other construction options in renovation projects, historical building upgrades, defective construction, or new construction. It is recommended for residential, industrial, commercial buildings, schools, dormitories, hotels, retail stores, restaurants, and the oil and solar energy industries.

Product Features & Advantages

- Easy to use and clean
- Non-toxic, low odor, eco-friendly
- Provides fire protection on a wide variety of surfaces
- High-performance / Fully tested
- Cost-effective

Surface Preparation

- The surface must be dry and ready.
- The surface should be cleaned of dust, dirt, oil, and old blistered coatings that may prevent proper adhesion.
- Weak substrates that cannot support themselves, such as cracked plasters, weak surfaces, or moss residues, should be removed from the application surface.
- If necessary, cracks on the surface should be filled and leveled with surface crack filler.

Application

- The surface temperature must be above +5°C before application.
- ADH-Primer should be applied as a primer and allowed to dry for 12 hours.
- The opened container should be mixed using a low-speed mixer.
- The product should be applied in 2 coats using a roller, brush, or airless spray gun.
- A minimum of 12 hours should be allowed between coats.
- If painting is interrupted for an extended period, the product should be re-mixed before resuming application. This is a highly sensitive and important factor for product efficiency.

Post-Application Protection & Recommendations

- **ADH- ANTI FIRE COATING** is a ready-to-use product. Please do not add any additives other than those recommended in the data sheet.
- The product should be used within its shelf life. Expired products should not be used.
- The surface applied with **ADH- ANTI FIRE COATING** should not be damaged by mechanical effects while being coated, and it should be protected during the curing process.
- Freshly applied surfaces should be protected from strong air currents, high air temperatures (above +5°C), rain, and frost during the first days.
- When there is a break in application, keep the packaging closed. The product should be protected from freezing.
- Low temperatures and high relative humidity may extend the drying time.
- It should not be applied in rainy weather, and the applied surface should be protected from rain within 24 hours.
- The surface should not be exposed to heavy traffic.
- During application, the surface and ambient temperature should be between +5°C and +40°C.
- The consumption values in the technical data sheet represent average consumption and may vary depending on application conditions and surface properties.

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Packaging	18 kg (Plastic Bucket)
Storage & Shelf Life	12 months in its unopened original packaging.

Technical Specifications

(at 23 °C and 50% RH)

General Data

Appearance	White liquid
Structure	Based on acrylic polymer dispersion
Density	approximately 1.293 ± 0.001 gr/ml
Shelf Life	12 months when stored in original packaging.
Viscosity	115 (25°C) kU

Application Data

Application Temperature Range	(+5°C) - (+40°C)
Drying Time	12 hours
Waiting Time After Application	Max. 48 hours
Single Coat Consumption	260 gr/m²/layer (Varies depending on the surface.)
3 Coat Min. Consumption	780 gr/m²/ 3 layers (Varies depending on the surface.)
3 Coat Max. Consumption	1000 gr/m²/ 3 layers (Varies depending on the surface.)