

THIN-FILM INTUMESCENT STEEL FIREPROOFING

CHARCOAT SC

150-MINUTE WATER-BASED
STRUCTURAL STEEL FIRE PROTECTION



CHARCOAT

GENERAL INFORMATION

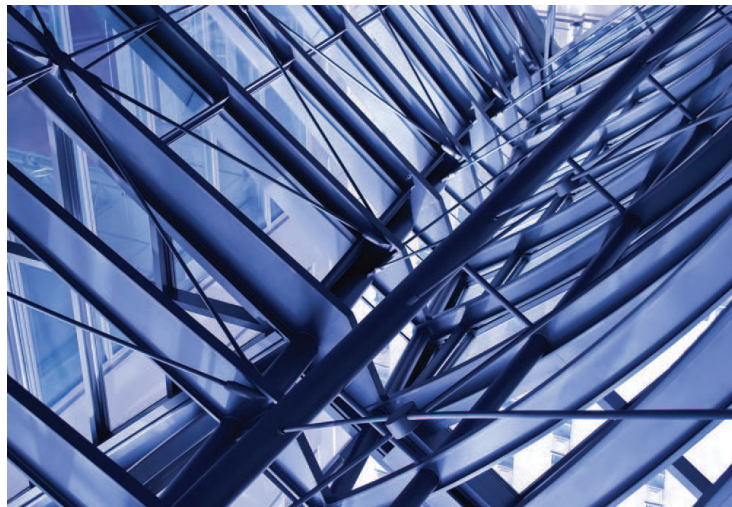
Imagine a fireproof coating so advanced it can shield steel structures, protect lives, and preserve your investment—all without compromising on design or functionality. Introducing **CharCoat SC**, the ultimate intumescent thin-film fireproof coating.

When exposed to high heat, CharCoat SC expands to form a tough, insulating char layer, protecting your steel infrastructure from fire's destructive force. It's not just a product; it's your frontline defense against catastrophic failure.

CharCoat SC outperforms conventional fireproofing options, offering a superior combination of aesthetics, reliability, and protection. When every second counts, CharCoat SC delivers.



Don't let fire be the weak link in your project. Choose CharCoat SC to protect your steel structures, ensure compliance, and deliver peace of mind.



With **CharCoat SC's** low spread rate, higher than average solids and extremely low DFT's, we can provide the most cost effective solution for all of your steel fireproofing needs.



CharCoat SC can be applied in residential, commercial and industrial applications where architectural designs call for a thin-film, aesthetic, highly decorative finish.

Semi exterior or covered areas can also be completed using a water-based, urethane or epoxy topcoat to seal the fireproofing system.

SPECIAL FEATURES

- 20 to 30 times typical intumescent expansion
- DFT's as low as 250 microns
- Fire rates steelwork up to 150 minutes
- Water based intumescent coating - Interior/Semi-Exterior
- Non-Toxic / Non-Hazardous (water-based)
- Most steelwork 1 or 2 coat application
- Permanent cost effective solution
- Zero maintenance required
- Single component (stir and spray)
- 0.600mm WFT in a single spray coat
- Brush application also available
- C1 and C2 environments (with Topcoat)

TECHNICAL DATA

For Interior or semi-external applications, use **CharCoat SC**. Topcoats are not required for interior works, but may be needed simply for colour. For semi-external works topcoats are required. Water based, Urethane or epoxy topcoats are acceptable.

CharCoat SC will last the lifetime of the steelwork if properly maintained.



CharCoat SC provides intumescent fire protection to structural steelwork while maintaining architectural aesthetics for commercial infrastructure assets including:

- Airports
- Stadiums and Leisure Facilities
- Office Buildings
- Retail Complexes
- Cinemas
- Residential Low and Highrise Apartments
- Atriums
- Warehousing
- Powerstations
- Mines
- Smelters
- Shipyards
- Swimming Pools (C4 topcoat required)



TRANSPORT STORAGE

- Transport and store free from frost - preferably at a minimum of +5°C to a maximum of +35°C.
- Shelf-life of unopened pails: 12 months based from date of manufacture.

PACKAGING

- 25kg Pails
- Plastic Pails
- Other sizes on request

SURFACE PREPARATION

Please refer to the Technical Data Sheet

APPLICATION

Please refer to the Technical Data Sheet

DRYING TIME

Please refer to the Technical Data Sheet

SAFETY AND ENVIRONMENT

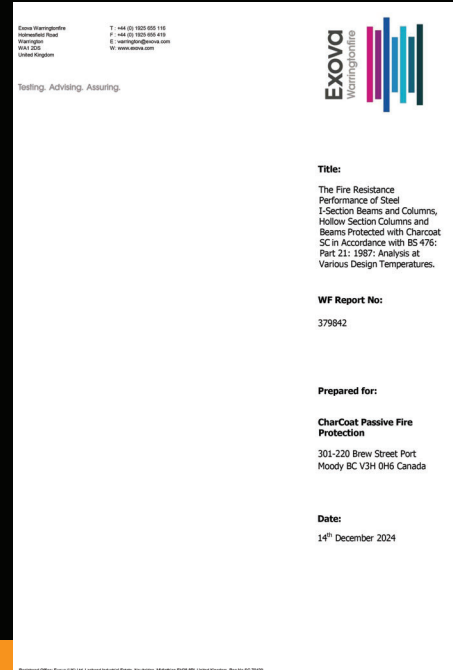
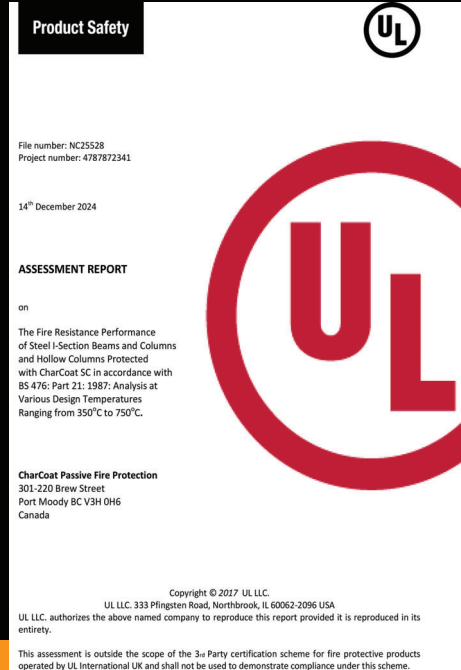
Please refer to the Technical Data Sheet

PRODUCT FIRE RATING (Minutes)

CharCoat SC Up to 150 minutes

APPROVALS DESCRIPTION

BS476 Part 21 SC120 - 120 minutes - Interior/Semi-Exterior
 UL Classification SC120 - 150 minutes - Interior/Semi-Exterior



Disclaimer: The above data, particularly the recommendations for the application and use of CharCoat Passive Fire Protection products are based on the manufacturer’s knowledge and experience. Due to different materials and conditions of application, which are beyond our control, we recommend in any case to carry out sufficient tests in order to ensure that CharCoat Passive Fire Protection products are suitable for the intended purpose and applications. Therefore, any liability for such recommendations or any oral advice is expressly excluded unless we have acted willfully or by gross negligence. It is always the responsibility of the installer / purchaser to guarantee correct preparation, DFT (CharCoat Coatings) and thickness (CharCoat Firestop Products) of all CharCoat Passive Fire Protection products. CharCoat Passive Fire Protection is not liable for installation or faulty installation. It is always the responsibility of the installer / purchaser to guarantee and certify the installation of materials.



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