

Steelguard

Steelguard FM

The Steelguard FM range of intumescent coatings is commonly used on steel frame structures in commercial, leisure, airports, education, retail, stadia, manufacturing and industrial sectors. The off-site application of intumescent coatings, prior to steel erection is now an accepted method of application. It is particularly suited to high rise steel frame structures in city locations.

The selection of the intumescent coating depends on the environment conditions in which it is to be exposed and whether the material is to be applied on or off-site.

Typical Intumescent Coatings and coating systems

Steelguard FM 549

A general purpose solvent based intumescent for on-site application providing up to 2 hours fire protection. Steelguard FM 549 is for internal C1/C2* exposure only. For service in C1 environments no sealer coat is required if applied on-site. Steelguard FM 549 may be exposed for up to 1 month to direct external weathering, plus 2 months in sheltered areas without a topcoat applied.



Steelguard FM 580/585

Water borne intumescent for on-site application providing up to 1 hour fire protection. These products are for internal exposure only. For service in C1 environments no sealer coat is required if applied on site.



Steelguard FM 550

This is an external (for up to C4 exposure)* grade intumescent coating designed for on-site application or off-site automated application providing up to 2 hours fire protection. Solvent based Steelguard FM 550 has improved water resistance and is designed to withstand exposure for up to 3 months to direct external weathering plus 6 months in sheltered areas without a topcoat applied.

Steelguard FM 560

An external (for up to C4 exposure)* grade intumescent coating designed for off-site manual application providing up to 2 hours fire protection. It is faster drying version of Steelguard FM 550 and has the same dry film composition.

Steelguard 551 and 561

Steelguard 551 and 561 are like 550 and 560 respectively, however specific engineered for up to 60 minutes fire resistance.

*C1, C2, C3, C4 are taken from ISO 12944

Steelguard CM

Superior fire protection.

Steelguard CM is the latest addition to Ameron's fire protection product line, developed to provide the strongest inert protection to steel and concrete structures in a fire.

The key benefits of Steelguard CM:

- Excellent durability
- Cost-effective solution
- Rapid and easy application
- Corrosion resistant
- Low fume emissions
- Fire tested to European Standards
- Simple solution for coating cell beams
- Single source for primers and topcoats



Steelguard CM 4702. Specially developed for the hydrocarbon

All Steelguard CM fire protection coatings are subjected to extensive in-house durability testing to the latest European standards.

The Steelguard CM Range

Steelguard CM 4701

This vermiculite cement-based product is designed to protect tunnels against fire. Both concrete and steel lined tunnels can suffer structural damage from a severe hydrocarbon fire: high-pressure steam causes concrete to crack and shatter, and steel typically loses its load-bearing capacity at temperatures between 550°C and 620°C. Fire tested to withstand the RWS hydrocarbon fire, Steelguard CM 4701 gives effective protection for concrete and steel tunnel linings for R12 and R240 fire ratings.



Protection against cellulosic fibres:
Steelguard CM 4703/4704

Steelguard CM 4702

Developed for the hydrocarbon industry, this product addresses the needs of two types of fire. Firstly, a pool fire, which occurs when flammable hydrocarbon liquid leaks from a vessel or pipeline and then ignites. The second and more dangerous type is a jet fire, where pressurised liquid or gas escapes from a vessel or gas pipeline and ignites. Steelguard CM 4702 provides hydrocarbon fire protection for steel structures to a critical temperature of 550°C and for pressure vessels to 400°C, for periods of up to two hours.

Steelguard CM 4703

This exterior grade vermiculite cement spray is designed to protect against cellulosic fires. Steelguard CM 4703 is effective in exposed locations as defined in ISO 12944 environmental classifications C3 and C4. It is used primarily on structural steel exposed to the weather during construction, on the undersides of car park decks and on external columns.

Steelguard CM 4704

A lightweight product for cellulosic fires, Steelguard CM 4704 is low-density vermiculite cement. With a proven track record in the protection of high-rise steel frame structures, low-density sprays are used in internal locations as defined in ISO 12944 environmental classifications C1 and C2.

Steelguard CM 4704 gives up to four hours effective fire resistance on structural steel in internal locations concealed from view, and on cellular beams. It can also be used to upgrade the fire performance of concrete floors.

Steelguard Range

Steelguard 2450

Intumescent mastic for on site repair on Steelguard intumescent coatings.

Steelguard 2458

Single pack acrylic finish that can be shop or site applied for Steelguard intumescent coatings.

Steelguard 3124

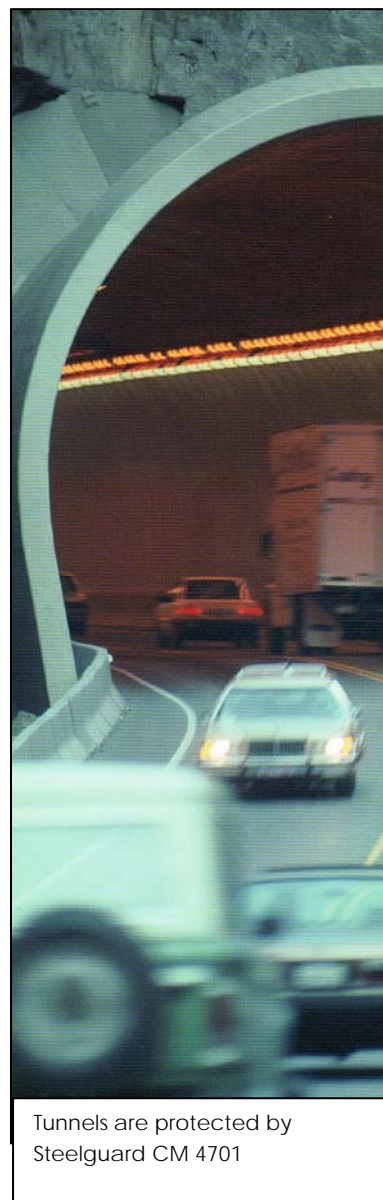
Steelguard 3124 is a two pack epoxy zinc phosphate primer. It is an anti-corrosion primer for general structural steel work and civil construction.

Steelguard 3290

Steelguard 3290 is a high solids epoxy zinc phosphate primer. It's an anti-corrosive primer or primer intermediate coating for general structural steel work operating in moderate corrosive environments. Ideal for use as a one coat functional finish or primer in CIRIA report 174 specifications.

Steelguard 3291

Steelguard 3291 is a VOC compliant two pack epoxy MIO. It is a build coat or functional finish for general structural steel and plant and equipment.



Tunnels are protected by Steelguard CM 4704

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