

REC COAT 764 FP

FIRE PROTECTION COATING FOR STRUCTURAL STEEL SECTIONS

DESCRIPTION

REC COAT 764 FP is water-based, intumescent coating system. Free from halogens, APEO, borates, plasticizers and silicones. Fire resistance rates from R 15 up to R 90 for open and hollow profiles.

PRIMARY APPLICATIONS

- For indoor use only
- Structural steel profiles as columns / beams / girders / I- / H-sections
- Open steel profiles: R 15 – R 60 for beams and R 15 – R 90 for columns
- 15 – R 60 hollow sections
- Up to R 90 usable without top coat in dry indoor conditions¹⁾ according to BS 476
- Coated steel components shall not be receive coverings or miscellaneous jackets which prevent the intumescent fire protection coating from foaming / expanding! Only those components may be connected force-fit, which comply with the same fire resistance rate.

FEATURES/BENEFITS

- Water-based, intumescent coating system.
- Free from halogens, APEO, borates, plasticizers and silicones.
- Fire resistance rates from R 15 up to R 90 for open and hollow profiles.
- Protects structural steel from high temperatures.
- Provides additional time for evacuation and firefighting.

TECHNICAL INFORMATION

ENVIRONMENTAL BENEFITS

- Water-based intumescent coating system
 - Free from halogens, APEO (alkyl phenol ethoxylates), borates, plasticizers and silicones
- Non-VOC according to ISO 11890-2, LEED v4 confirmed

TECHNICAL PERFORMANCE

- Optimal surface appearance by application with airless spraying achievable; long fire resistance rates with low layer thickness; maintenance-free
- Approved also for the use on galvanized profiles
- Top coat in RAL / NCS or individual color shades available
- Suitable for shop application (fast drying)
- Open profiles up to $H_p / A \ 375 \text{ m}^{-1}$ and hollow profiles up to $H_p / A \ 325 \text{ m}^{-1}$
- Specific gravity: 1.35 g/cm^3 , volume solid: $70 \% \pm 3 \%$ (measured according to ISO 3233), VOC: $< 1 \text{ g/l}$, theoretical coverage: $1.43 \text{ l/m}^2 \mid 1\text{mm DFT}$, color: white

ADDITIONAL

- High efficiency due to low material consumption / low coverage rates and fast drying times
- Monitored by independent third party institutes

DIRECTIONS FOR USE

INSTRUCTIONS FOR APPLICATION

- The coating system consist of primer, fire protection coating **REC COAT 764 FP** and top coat
- The coating system should only be applied by trained staff!
- System should be preferably applied and dried at a temperature above $+10 \text{ }^\circ\text{C}$ and at a relative humidity below 80 %
- Surface temperature should be at least $+5 \text{ }^\circ\text{C}$ above dew point, during application see Corrosion Protection Standard EN ISO 12944 -7
- In line with good painting practice, application should not take place in conditions which are

deteriorating, e.g. where the temperature is falling or where there is a risk of condensation forming on the steel

- Steel surface should not be warmer than +35 °C during application and drying time
- The ambient conditions during application must be documented in a report according to EN ISO 12944-7 and -8

SHOP APPLICATION

The temperature of the steel surface and the ambient temperature has to be between min. +10 °C and max. +35 °C. For further questions, please contact our technical support team.

BARE PROFILES

- Sandblasting Sa 2.5 according to EN ISO 12944-4, then application of primer
- Manual cleaning possible, PSt 2 according to EN ISO 12944-4, after manual cleaning application of REC CLEANER

PRIMED PROFILES

- **REC COAT 764 FP** is designed to be applied over suitable prepared and primed substrate
- The compatibility between **REC COAT 764 FP** and unknown already applied primers need to be checked; any damage (corrosion, impact e.g.) must be repaired carefully with the particular type of primer used or other compatible primers.
- Before the application of **REC COAT 764 FP** already primed surfaces must be checked for damages and dry film thickness if they have been exposed to the weather for longer. If necessary, repair work is needed! For further information see Technical Data Sheets for REC PRIMERS.

GALVANIZED PROFILES

- Surface has to be cleaned to remove contamination and to ensure adhesion, then priming REC PRIMER
- Galvanized components must be tempered (heated) before coating.

APPLICATION:

Before application stir up thoroughly with slow speed! Immediate cleaning of equipment after use with water!

Airless Spraying

- A material temperature of about + 20 °C is recommended for achieving an optimal spraying behavior and result
- If needed thinning with max. 3 % water
- Recommended operation pressure 200 – 250 bar
- Nozzle size 0.017" – 0.025"; flow rate > 4 l/min
- All filters should be removed
- Recommended coverage rate for the 1st layer on a primed surface 500 g/m² (approx. 250 µm dry film thickness)
- Each further layer can be applied with up to 500 g/m² (approx. 250 µm dry film thickness)
- Typical coverage rate of **REC COAT 764 FP** applied in one layer depends on the type of steel profile and the position within construction

Brushing and Rolling

- Rolling by lambskin or foam roller, brushing with long-bristled Chinex-bristle

DRYING TIME

- The drying time depends on temperature and relative humidity
- At a temperature of approx. + 20 °C and a relative humidity of approx. 65 % the drying time for each layer (up to 1,000 g/m²) is at least 24 hours till next application
- Each layer must be dried through (fingernail test positive) before the next application
- Lower temperatures, higher relative humidity and insufficient air movement can prolong drying time

TOP COATS

RECKON top coats offer the possibility of colored design, protection against moisture and should be applied when the surfaces, during the usage, are exposed to environmental influences, regular cleaning and similar external influences. Do not apply the top coat before the **REC COAT 764 FP** fire protection coating is fully dried!

At the earliest after 24 hours and after a positive fingernail test. Usage without top coat is possible, but only in dry indoor conditions without condensation. If steel surfaces are regularly exposed to intense heat / high temperatures, do not use dark colours as a top coating. RECKON top coats are available in RAL or

NCS colour shades and on request in individual colour shades.

PACKAGING

REC COAT 764 is available in different packaging and can be supplied on request.

STORAGE AND TRANSPORT

- Storage and Transport free from frost!
- Preferably at a minimum of +5 °C to a maximum of +30 °C
- Shelf life of unopened pails: 12 months
- Opened pails must be sealed carefully after use.

HEALTH & SAFETY

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult RECKON Safety Data Sheets and follow all local or national safety regulations.

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