

Product information

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| Type | Firefilm SC902 is a fast track on-site, low VOC, one coat, high build system based on an advanced patented hybrid technology. |
| Recommended use | Firefilm 902 gives efficient and structural fire performance, up to a 120 min fire rating. |
| Key Benefits | <ul style="list-style-type: none"> • Fast cure, early weather resistance, shower proof within 1 hour after application. • Achieves external durability with an approved top coat. • Cures below 0°C and is fully dry by the day after application. • "Self-priming" system tolerates light rusted surface, within 2 weeks after blast cleaning. • High build potential with all fire ratings possible in one coat. • Fire rating up to 120 min. Testet in accordance with BS476 og EN13381:Part 8. • "Prohesion" cyclic corrosion test ASTM G85:2009 Annex 5. After 1000 hours Maximum extent of undercut corrosion. 6,00 mm from scribe mark. The above test was carried out in a primer-less steel substrate.. |
| Surface "finish" and top coat | Can be applied to a smooth matt finish. A compatible top-seal can be applied if a decorative finish is required. Contact Carboline for recommendations regarding approved top-seals. |
| Colour | Part A: White Part B: Transparent black Mixed and cured : Off-white |
| Specific Gravity | Part A : 1,55 ±0,02 Part B : 0,99 ±0,01 Mixed : 1,46 ±0,02 |
| Solids content | 85% ±3% |
| Viscosity | Part A : 140 ±20 Poise Part B : 10 ±1 Poise Mixed: 80 ±10 Poise |
| Pot-life | Min. 60 minutes. |
| Packaging | Part A & Part B delivered as 25 kg. kits (17,1 ltr.) |
| Environment /VOC | Low VOC content (137 g/ltr.) without entrapped solvents or long term smell of solvents. |

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Availability / specifications

Only for approved and authorised professional entrepreneurs.

Contact Carboline regarding specifications for each individual project.

Pre-Treatment

- Carboguard E 19 or Carbomastic 18 FC shall be used as primer.
- Steel must be blast cleaned to a surface of Sa 2½ in dry surroundings with a clean and dry abrasive, ISO 8501.
- Blast cleaned steel must be over coated within 2 weeks. The surfaces shall remain free of contaminants, loose debris or other contaminants which may impair adhesion.
- Compatible with aged 2 pack epoxy primers, minimum (min. 3 months.), or with surface preparation or an adhesion test.
- The system is not suitable shall for use over single pack primers.
- For use over galvanised surfaces or other substrates please contact Carboline Technical services.

Application Conditions

- Ensure adequate ventilation during application.
- Application temperature range from 0°C til + 35°C, relative humidity < 95%. Steel temp. must be min. 3°C above dew point.

Application Equipment

Graco Mark V or equivalent.
Reversible nozzles size 0,019" - 0,027".

Application

- Ensure all spray equipment is free from water prior to use, including sraygun, hoses, pump and filter house.
- Keep all coating containers closed when not in use.
- Part B is moisture sensitive and should remian tightly closed before use.
- Always mechanically mix product in full pack volumes.
- Ensure the two components are thoroughly combined until a uniform colour is obtained..
- The product should be spray applied at close proximity, approximately 600 millimetres from the surface, to avoid dusting and promote good surface coalescence.
- Use of additional solvent mixed into the material will assist in achieving a higher decorative finish. Please note this will affect the build characteristics.
- Measuring of the wet film thickness during application is important and is mandatory during the application process.
- Ensure mixed material is used within 2 hours, ideally as soon after mixing as possible, at 15°C and 65%Rh.
- Galvanised bolts, once degreased can be coated with no further preparation.
- Damaged coating can be trimmed to a feathered edge and

the material troweled in one application.

- The applied product once cured can be easily finished to a high level, by sanding or tooling with either electrical or hand tools.
- Repairs can be performed using SC900 Repair Kit.

Theoretical Coverage

Theoretical Coverage Coverage/consumption by 1,00 mm (1000 µm) dry film-thickness = 1,75 kg/m².

Cleaning & Safety/HSE

Flushing of equipment should be carried out within 90 minutes of mixing the final kit using a non-flammable, low toxicity cleaning solution or a Xylene based solvent flush. Do not use cleaning solutions containing alcohol or water.

Read and follow all safety measures and HSE requirements described on the material safety datasheet for Firefilm 902.

Storage

To be stored indoors at a dry location with temperature 0°C to + 35°C.

Shelf life

6 months when stored as recommended in original unopened container.

Note

This product shall be used on its own or together with other recommended Carboline products unless there is a written approval from Carboline.



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