

SELECTION & SPECIFICATION DATA

Generic Type	Firefilm 902 is a fast track on-site, low VOC, one coat, high build system based on an advanced patented hybrid technology.
Description	Firefilm 902 gives efficient and structural fire performance, up to a 120 min fire rating.
Features	<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 and 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.
Color	Part A: White Part B: Transparent black Mixed and cured : Off-white
Primer	Carboguard E 19 or Carbomastic 18 FC can be used as primer. Other alternatives are available.
Solid(s) Content	85% ±3%
Theoretical Coverage Rates	Coverage/consumption by 1,00 mm (1000 µm) dry film thickness = 1,75 g/m².
VOC Value(s)	Low VOC content (137 g/ltr.) without entrapped solvents or long term smell of solvents.
Product Compatibility	Compatible with aged 2 pack epoxy primers, minimum (min. 3 months.). The system is not suitable for use over single pack primers.
Topcoats	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 topseals.
Specific Gravity	Part A : 1,55 ±0,02 g/cm³ Part B : 0,99 ±0,01 g/cm³ Mixed : 1,46 ±0,02 g/cm³
Viscosity	Part A : 140 ±20 Poise Part B : 10 ±1 Poise Mixed: 80 ±10 Poise

SUBSTRATES & SURFACE PREPARATION

Steel	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.
Galvanized Steel	For use over galvanised surfaces or other substrates please contact Carboline Technical services.
Special Instruction	<u>Availability / specifications</u> Only for approved and authorised professional entrepreneurs. Contact Carboline regarding specifications for each individual project.

Firefilm 902

PRODUCT DATA SHEET



MIXING & THINNING

Gel Time	90-120 minutes
Mixing	Power mix product in full package volumes. Ensure uniform color of mixture.
Ratio	By weight: 10 - 1.2 (A to B) By volume: 5.6 - 1 (A to B)
Pot Life	60 minutes

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Application Procedure	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
Spray Equipment	Graco Mark V or equivalent.
Nozzle/Gun	Reversible nozzles size 0,019" - 0,027".

APPLICATION PROCEDURES

General	<ul style="list-style-type: none">• Ensure all spray equipment is free from water prior to use, including spraygun, hoses, pump and filter house.• Keep all coating containers closed when not in use.• Part B is moisture sensitive and should remain 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.• 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.
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CLEANUP & SAFETY

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

PACKAGING, HANDLING & STORAGE

Shelf Life	9 months when stored as recommended in original unopened container.
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PACKAGING, HANDLING & STORAGE

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

Packaging | Part A & Part B delivered as 25 kg. kits (17,1 ltr.)

WARRANTY

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