

## Firesleeve — CPVC Sprinkler Edition

Chemically Inert Silicone Barrier · No Plasticizers · Made in Britain

CPVC PIPE PROTECTION - FIRE-WALL PENETRATIONS - CABLE SEPARATION - SPRAY FOAM ZONES

### SRF FIRESLEEVE



#### WHAT IS IT?

SRF Firesleeve is manufactured from 'E' glass fibre yarn knitted to form a sleeve and coated with high-grade silicone elastomer rubber.

Contains no plasticizers, esters or hydrocarbon compounds — creating a completely inert physical barrier between CPVC pipe and incompatible adjacent materials.

#### CPVC SPRINKLER APPLICATIONS

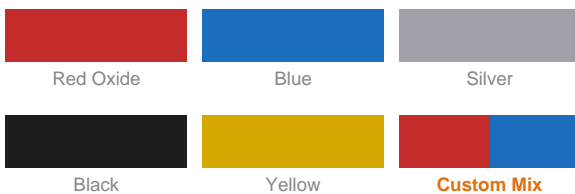
- Pipe runs adjacent to electrical cables
- Fire-wall penetration zones
- Under pipe hangers and clips
- Spray foam insulation contact zones
- Congested service routes (letter-box)
- Residential and commercial installations

#### STANDARD FORMAT

Inside diameter: **4 mm to 203 mm**

Method of supply: **15 m coils**

#### AVAILABLE COLOURS



Custom colours & cut lengths available on request.  
Glass locked edge option for ready-cut custom sizes.

#### QUICK FACTS

Standard colour	Red Oxide
Continuous operating temp	260 C (500 F)
Molten splash resistance	Outstanding
Flame resistance	Very good
Chemical resistance	Outstanding
Flexibility	Outstanding
Water & oil resistance	Outstanding
Avg. dielectric strength	30 kV+
Wall thickness	4 mm +/- 0.5 mm

#### CPVC COMPLIANCE & COMPATIBILITY

✓ EN 45545-2	Fire protection standard
✓ ISO 11925-2	Ignitability of products
✓ IEC 60695-11-10	Classified HB and V0
✓ UL94 V0/V1/V2	UL flammability rating
✓ MSHA Certified	Mine Safety & Health Admin.
✓ Made in Britain	Manufactured in Burnley, UK

CONTINUOUS  
**260C**  
500F

MOLTEN SPLASH  
**1200C**  
2192F

DIELECTRIC  
**30kV+**  
No plasticizers



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Why a Barrier Layer is Essential

CASE STUDIES - FORENSIC EVIDENCE - SOURCES - THE SOLUTION

## The consequences of missing the barrier layer

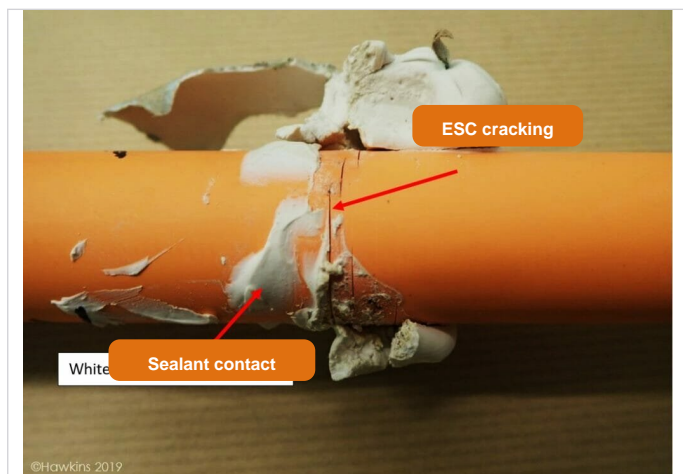
Real-world CPVC pipe failures caused by incompatible materials — documented by independent forensic investigators. Both failures could have been prevented by a silicone firesleeve barrier applied before adjacent materials.

### CPVC FIRE SPRINKLER INSTALLATION



Orange CPVC fire sprinkler pipework — lightweight and fast to install, but vulnerable to chemical contamination from adjacent materials.

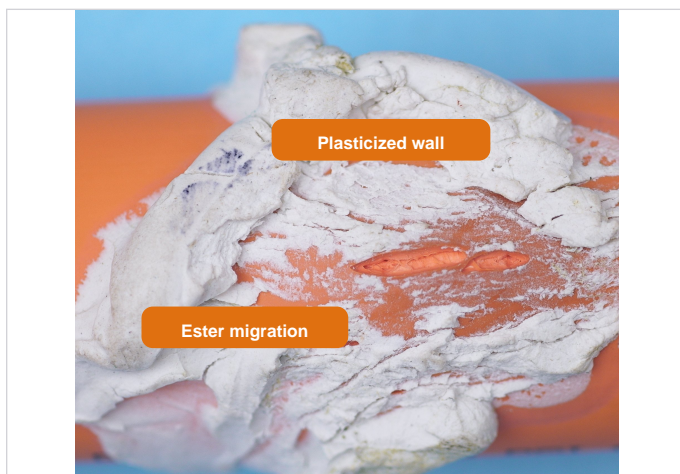
#### CASE 01 — ESC FROM FIRE-STOPPING SEALANT



Hawkins 2019 — CPVC cracking caused by incompatible fire-stopping compound.

Sources: Hawkins Forensic Investigation 2019 / 2020 / 2024 · CROSS Safety Report 1228, February 2024 · Corcoran Consulting & Forensic Engineering 2024

#### CASE 02 — PLASTICIZATION / ESTER MIGRATION



Forensic evidence — pipe wall softened and delaminated by ester compound migration.

### THE SOLUTION

Wrap S Riley Fabrications Firesleeve or Firesleeve Tape around the CPVC pipe at every penetration, joint and hanger point BEFORE any adjacent material is applied. Silicone rubber contains no plasticizers, esters or hydrocarbon compounds and will not migrate into the pipe wall — eliminating the contamination pathway. Tested by Spears Manufacturing for compatibility with FlameGuard CPVC fire sprinkler systems.