

# IRISeal PG1

**Intumescent sealant  
for fireproofing of joints,  
gaps and service  
penetrations.**

**IRISeal** are waterborne fast-drying easy-to-use intumescent sealants.

**PG1** is a smooth white acrylic sealant based on intumescent technology particularly suitable for interior application.

**IRISeal** are used for fireproofing of joints in stiff panels and walls, fireproof sealing of service penetrations, e.g. electrical or communication cables and pipes through separation walls, fireproof sealing of gaps in firewalls. To be used alone or in combination with fire grade high density rockwool or other fire resistant panels.

*Intumescence means "swelling while charring". Special chemicals in the material react in excess of 200°C generating a low-density expanded char up to 100 times thicker than the original dry film. This char provides a very effective barrier to heat transfer protecting the substrate.*

*Resistance to fire includes the attitude of separating construction elements to maintain their characteristics of E = integrity and I = insulation during a fire, i.e. to avoid fire, smoke and dangerous gases to go through and to reduce heat transmission to the unexposed side to avoid propagation of fire.*

*In commercial and industrial facilities, hotels, airports, supermarkets, schools, hospitals, cinemas, theatres, the use of intumescent sealants reduces spread of fire preserving lives and property, allowing people evacuation and the safe operation of the fire brigade.*

## IRISeal PG1

**DENSITY:** 1,25 ± 0,05 kg/dm<sup>3</sup> at 20°C

**SOLIDS CONTENT:**

75% ±5%w/w - 70% ±5%v/v

**COLOUR:** white

**STANDARD PACKING:** 310ml plastic cartridge

**SHELF LIFE:** 12 months  
in original packing and proper environment

**APPLICATION:** by cartridge nozzle or trowel

**THINNING:** No

**DRYING TIME \***

12 hours - touch  
7 days - full depth

**OVERCOATING:** Yes after through drying

**MIN APPLICATION TEMPERATURE** +5°C

**MAX APPLICATION TEMPERATURE** +45°C

(\*) @ +20°C and 60% RH. Drying time depends on DFT, temperature, relative humidity.

## TEST, ASSESSMENT AND CLASSIFICATION REPORTS

APPLUS 15-11113-2634 P1

APPLUS 15/11113-2634 P2

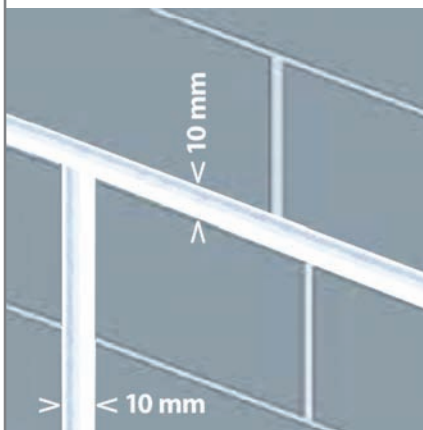
APPLUS 15/11113-2634-1

APPLUS 15/11113-2634-2

APPLUS 15/11113-2634-3

APPLUS 15/11113-2634-6

• **JOINTS AND GAPS IN SOLID WALLS**  
EI 120 with PG1  
up to 10 mm gap – vertical and horizontal



**DISCLAIMER:** Though based on the results of long term testing and experience the information given here is informative only. We cannot accept any liability for use of this information and the product unless a proper check has been done of the specific application, verified by the end-user. Accurate preliminary testing and definition of an application protocol and system is highly advisable to obtain full advantage of this product.

## USE AND APPLICATION

**IRISeal** is applied by injection with its own cartridge and finished or smoothed by trowel, carefully filling any void space in the fire barrier. Application can be done both on new installations and for refurbishing. In case of maintenance, adding additional cables or pipes and any other such operation, the protection can be restored by simply re-coating and refilling the parts that have been added.

Cable trays penetrations: fix the cables regularly in the tray avoiding knots and overcrossings and put the cables close to each other to reduce the surface area exposed. The protection can be made by creating separate blocks of coated cables or coating the whole length. In both cases the whole surface of cables and the tray must be coated (upper side, lower side and sides). Gaps larger than 20 mm must be filled with subsequent applications after 3-4 hours from each other.

## CERTIFICATIONS AND APPROVALS

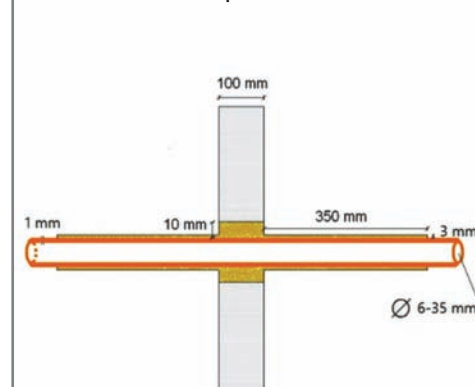
**IRISeal PG1** comes with European certification: Tested according to **EN 1363-1:2012** "Fire Resistance tests: General Requirements" and **EN 1366-3:2009** "Fire Resistance Tests for service installation. Part 3: Penetration seals" and **EN 1366-4:2006 +A1:2010** "Fire resistance tests for service installations. Part 4: Linear joint seals".

Classified for the determination of the fire resistance of linear joints according to **EN 13501-2:2007+A1:2009** "Fire classification of construction products and building elements. Part 2: Classification using data from fire resistance tests, excluding ventilation services".

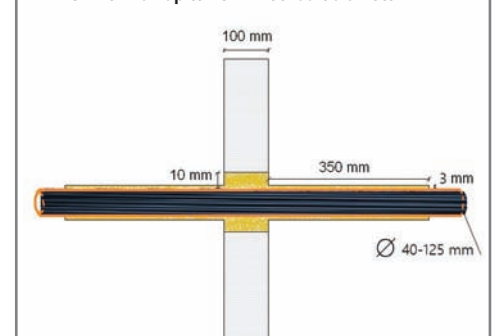
Classified for the determination of the fire resistance of penetration seals according to **EN 13501-2:2007+A1:2009** "Fire classification of construction products and building elements. Part 2: Classification using data from fire resistance tests, excluding ventilation services".

Our technical service will be happy to assist on the use of performance and classification data.

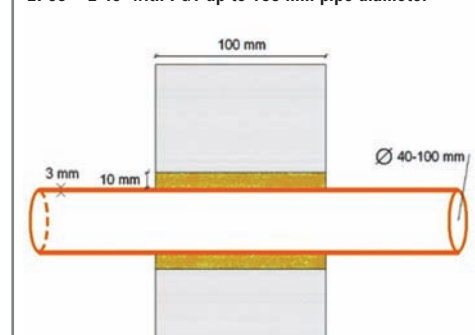
• **COPPER, STEEL OR METAL PIPES**  
EI 45 - E 120 with PG1 up to 35 mm diameter



• **CORRUGATED CABLE CONDUITS WITH ANY NUMBER OF CABLES INSIDE**  
EI 90 - E 120 with PG1 up to 125 mm conduit diameter  
EI 120 with PG1 up to 40 mm conduit diameter



• **PVC RAINWATER AND SEWAGE PIPES**  
EI 120 with PG1 up to 40 mm pipe diameter  
EI 60 - E 90 with PG1 up to 100 mm pipe diameter  
EI 30 - E 45 with PG1 up to 160 mm pipe diameter



• **ELECTRICAL CABLES BUNCH**  
EI 120 with PG1 up to 17 x Ø12 mm cables

