

Non-combustible glues

GB / 4.1 / Rev. 3

PYROCOL A - E - L - F



odice
PASSIVE FIRE PROTECTION



Product description

PYROCOL are simple pasting water-based glues which provide an entirely non-combustible film.

PYROCOL film, slightly intumescent, enhances the fire resistance of elements to which it is applied. Its initial setting time, lower than that of traditional glues, allows earlier handling of glued elements.

PYROCOL is rated as non-combustible M0 according to the French fire reaction test.

PYROCOL exists in different versions, in order to adapt to the most diverse materials and applications.

Technical data

| | PYROCOL A | PYROCOL E | PYROCOL L |
|--------------------------------|--|--------------------------|--------------------------|
| General | | | |
| Product type | High temperature glue with a chemical binder | | |
| Reaction to fire | M0 non-combustible (report on request) | | |
| Presentation | Liquid (ready to use) | | |
| GCV | < 0 kJ/kg | < 0 kJ/kg | < 0 kJ/kg |
| Pyrometric cone | 1100°C | 1100°C | 1100°C |
| Basic component | Silicate | Silicate | Silicate |
| Silicate | 40 µ | - | - |
| Binding | Chemical | Chemical | Chemical |
| Colour | Cream | Transparent | Transparent |
| Chemical (average)* | | | |
| SiO ₂ | 64/70 % | 26/30 % | 26/30 % |
| Al ₂ O ₃ | 15/17 % | - | - |
| Na ₂ O | 10/15 % | 8/9 % | 8/9 % |
| Physical | | | |
| Dichte | 1,5 | 1,38 | 1,36 |
| pH | 9 to 11,5 | 9 to 11,5 | 9 to 11,5 |
| Viscosity at 20°C | (cyl. n° 5 speed 20 rpm) | (cyl. n° 2 speed 50 rpm) | (cyl. n° 2 speed 50 rpm) |
| | 14000 to 15000 mPa.s | 200 to 230 mPa.s | 100 to 130 mPa.s |
| Temperature limit | 800°C | 700°C | 700°C |

* Fluorescence X on sample burned to 1000°C / 5 hours

PYROCOL A

PYROCOL A sticks polyurethane, mineral wool, glass wool, ceramic and SUPERWOOL fibres, calcium silicate boards, plasterboards onto a wide range of receiving surfaces: steel, aluminium, galvanised steel.

Application:

Brush, paintbrush or spatula.

Standard packaging:

PYROCOL A is supplied in buckets of 12,5 or 22,5 kg or in containers of 1400 kg. On special request, in buckets of 5 kg or in 1,5 kg cans with applicator nozzle.

PYROCOL E & L

PYROCOL E and **L** stick polyurethane, mineral wool, ceramic and **SUPERWOOL** fibres, calcium silicate boards, plasterboards onto a wide range of receiving surfaces: steel, galvanised steel.

When sprayed, **PYROCOL L** provides a treatment against defibration of fibre-based products.

Application:

Brush, paintbrush or spray gun.

Standard packaging:

PYROCOL E and **L** are supplied in buckets of 12,5 and 22,5 kg.

Technical data

| PYROCOL F | |
|----------------------------------|--|
| General | |
| Product type | Refractory glue for gluing fibrous materials |
| Reaction to fire | M0 non-combustible (report on request) |
| Presentation | Paste (ready to use) |
| GCV | 16 kJ/kg |
| Pyrometric cone | 1350°C |
| Basic component | Silica |
| Maximum granulometry | 0,4 mm |
| Binding | Chemical |
| Colour | Cream |
| Chemical (average)* | |
| SiO ₂ | 78/80 % |
| Al ₂ O ₃ | 14 % |
| Fe ₂ O ₃ | < 1 % |
| Physical | |
| Density | 1,90 |
| pH | 10 to 11 |
| Viscosity at 20°C (penetrometer) | 11/15 |
| Temperature limit | 1260°C |

* Fluorescence X on sample burned to 1000°C / 5 hours.

PYROCOL F

PYROCOL F sticks rock wool, glass wool, ceramic and **SUPERWOOL** fibres, calcium silicate boards, plasterboards onto a wide range of receiving surfaces: steel, aluminium, galvanised steel.

Application:

Trowel or spatula.

Standard packaging:

PYROCOL F is supplied in buckets of 12,5 or 22,5 kg.

On special request, in buckets of 5 kg or in 310cc cartridges in boxes of 25 units.

■ Application of PYROCOL glues

- Ready to use.
- The surface to be coated must be clean and dry.
- Mix well before each use.
- Apply a film onto 1 or 2 surfaces of the materials to be glued together, depending on the type of surface.
- Apply glue and apply pressure.
- The working time depends on the temperature and the relative humidity of the ambient air.
- A higher temperature and dry air will mean a shorter working time.
- Drying in ambient air: it is possible to accelerate setting by hot pressing (up to temperatures of between 80 and 90°C).
- For interior applications.
- Dissolve on permanent contact with water.
- Application tools can be cleaned in water.

Storage

Bucket or container shelf life: 12 months in the original, unopened packaging.

Cartridge shelf life: 9 months in the original, unopened packaging.

Store away from freezing temperatures and excessive heat.

Health and safety measures

PYROCOL can be an irritant for the eyes; the wearing of safety goggles is recommended.

Observe usual workplace health and safety rules.

Refer to the safety data sheet.

IMPORTANT: while the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by ODICE hereunder are given free of charge and ODICE assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.



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