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| Data Sheet MAGPLY FR INTUMESCENT SEALANT | Magply® |
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Company information
Manufacturer:
 IPP Ltd
 Bradwell Hall
 Bradwell on Sea
 Essex CM0 7HX
 Tel: 0044 (0)1621 776252, Fax: 0044 (0)1621 776688

General Product Description
 MAGPLY FR INTUMESCENT SEALANT is designed to prevent the spread of fire and smoke through joints and openings in fire rated walls and floors including openings formed around building service penetrations. It will also maintain the acoustic design performance in walls and floors.

MAGPLY FR INTUMESCENT SEALANT cures when it is subjected to atmospheric conditions, however, it will retain a degree of elasticity for joint movement. Under fire exposure, MAGPLY FR INTUMESCENT SEALANT creates a robust fire seal by the formation of a durable intumescent char.

MAGPLY FR INTUMESCENT SEALANT can be used with a suitable filling material, i.e. stone wool or appropriate backing material in order to secure correct width to depth ratio and to reduce the shrinking of the sealant during curing. Minimum depth and maximum width of the joints are included in the installation instructions. Thermal activation takes place at about 180°C when the material will expand (intumesce) and prevent the passage of fire and smoke for periods up to and beyond 4 hours.

- Properties**
- High End Formula, certified Worldwide
 - Classified for fire sealing all types of constructions and building service penetrations
 - Very high sound insulation
 - Low emissions – environmentally and user friendly
 - Simple to apply with a smooth surface finish
 - Permanently flexible – will accommodate movement up to 7.5%
 - No priming necessary for application to most materials
 - Suitable for most surfaces, including concrete, bricks, Leca, steel, gypsum, glass, plastics and most non-porous surfaces.
 - Hardens quickly; tack free after 1 hour (the fire performance specification of the joint filler has been derived when the joint filler has been left to cure for a month).
 - Minimum 12 months storage time (under correct conditions)
 - 30 years working life

Emission Data (indoor air quality)

| <u>Compound</u> | <u>Emission rate after 3 days</u> | <u>Emission rate after 4 weeks</u> |
|-------------------------|-----------------------------------|------------------------------------|
| TVOC | 83 µg/m ³ | <5 µg/m ³ |
| TSVOC | n.d. | n.d (<5 µg/m ³) |
| VOC w/c NIK | n.d. | n.d (<5 µg/m ³) |
| R Value | n.d. | <1 |
| Formaldehyde | <0.003 mg/m ² h | <0.003 mg/m ² h |
| Acetaldehyde | <0.003 mg/m ² h | <0.003 mg/m ² h |
| Sum for+ace | <0.002 ppm | n.d. |
| Carcinogens | <1 µg/m ³ | <1 µg/m ³ |
| n.d. means not detected | | |

Remark: as part of our policy of ongoing product development and testing, we reserve the right to modify, alter or change product specifications without giving notice. All information contained in this document is given in good faith and is provide for guidance only. Any drawings provided are for illustrative purposes only. As IPP has no control over the methods or competence of installation and of prevailing site conditions, no warranties, expressed or implied are intended to be given as to the actual performance of the product mentioned or referred to herein and no liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given.

MAGPLY FR INTUMESCENT SEALANT complies with the requirements of GEV and the results correspond to the EMICODE emission class EC 1^{PLUS} which is the best possible environmental and indoor hygiene health protection mark.

Tested by Eurofins Product Testing, report number G12870B

Sound Insulation

Description

Single sided seal $\geq 12\text{mm}$ depth

Sound Reduction

62dB

MAGPLY FR INTUMESCENT SEALANT has been tested at BM Trada (UKAS accredited); according to EN ISO 10140-2:2010. Usage if any backing material is optional, due to the tests being conducted with sealant only.

Technical Data

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|---------------------|-------------------------------------|--------------------------|-----------------|
| <u>Condition:</u> | Ready for use, acrylic based filler | <u>Specific gravity:</u> | 1.56-1.60 |
| <u>Flash Point:</u> | None | <u>Reaction to Fire:</u> | Class D-s1, d1 |
| <u>Non-Sticky:</u> | Max. 75 minutes | <u>Filming foaming:</u> | Max. 25 minutes |

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|---------------------------------|--|------------------------------|----------------------------------|
| <u>Totally hardened</u> | 3-5 days depending on thickness and temp | | |
| <u>Flexibility:</u> | 7.5% | <u>Durability Service:</u> | Class Z ₂ |
| <u>BWR 3:</u> | Use Category IA1, S/W3 | <u>Thermal Conductivity:</u> | 0.845 W/mK (+/- 3%) @ 20mm depth |
| <u>Storage</u> | At least 12 months stored in unopened foil. To be stored in temperatures between 5°C and 30°C. | | |
| <u>Working Life:</u> | 30 years | <u>Service Temperature:</u> | -20 to + 70°C |
| <u>Application Temperature:</u> | +5 to + 30°C | <u>Colour:</u> | White |
| <u>Compatibility:</u> | Suitable for use with most materials, should not be used with direct contact with bituminous materials | | |
| <u>Limitations:</u> | Should not be used in permanently damp areas or in joints with high movement. | | |
| <u>Classification</u> | CE Marked – Sealant for fire rated joints and penetrations Class EI 240 | | |
| <u>Packaging</u> | 600ml Foil packed | 12 per box | |

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IPP Black Mountain

Bradwell Hall, Bradwell on Sea, Essex CM0 7HX
Tel: 01621 776252 Fax: 01621 776688