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Rytons Materials Statement

Introduction

The most common materials used in our metal fabrication services are listed below. The properties of an individual product can be found at www.vents.co.uk within the product specification paragraph.

Material Specification Sheets

Manufacturer's data sheets are available on request. However, as metals and powders are sourced from several manufacturers, a request for information must be made at the time of ordering. We are unable to supply specification sheets before ordering or after delivery.

0.9mm Galvanised Steel

- 0.9mm mild steel sheet coated with zinc using an electrolytic process.
- European Classification A1 without testing.
- Non-combustible (no contribution to fire).
- Remains robust at elevated temperatures - has a high melting point of 1450-1520° C.

0.5mm Spiral Galvanised Steel

- 0.5mm steel substrate coated with metallic zinc using a continuous hot dip galvanising process.
- European Classification A1 without testing.
- Non-combustible (no contribution to fire).

Grade 304 and Grade 316 Stainless Steel

- Low carbon steel.
- Grade 316 is often favoured in coastal areas due to its higher corrosion resistance.
- European Classification A1 without testing.
- Non-combustible (no contribution to fire).

ZL5 Zinc

- Die casting alloy used to manufacture Rytons A1® Fire-rated Metal Rytweep® (RYTWEA1METAL).
- A two-part electroplated coating protects the base metal.
- European Classification A1 without testing.
- Non-combustible (no contribution to fire).

Metal Mesh

- 06-20FG flattened pre-galvanised steel mesh, unless specified otherwise.
- Aperture size: 3.81mm LW x 2.03mm SW (long way x short way).
- Strand width 0.79mm.
- Open area: 56%.
- European Classification A1 without testing.
- Non-combustible (no contribution to fire).

Powder Coating

- All powder coating is European Classification A2-s1, d0, unless specified otherwise.
- Thickness: 60-80 microns.
- A2: Combustibility - limited combustibility.
- s1: Smoke emission - little or no smoke.
- d0: Release of flaming droplets or particles - none.
- Compared to galvanised steel, powder coating on Grade 304 and 316 stainless steel can have a shorter life, especially in coastal areas.

Everflex Fire Mate Intumescent Sealant

- Thin beads of acrylic sealant used to seal seams and gaps.
- Specification sheet attached.

Plastic Duct Connector

- Where fitted, the plastic connector facilitates the attachment of plastic HVAC supply and extract ducting.
- The plastic connector must be situated within the internal wall.
- Composition: High quality plastic.

All information given is in good faith and to the best of our knowledge is true and accurate, however, no guarantee regarding its accuracy is given, nor should Rytons representatives or agents imply any such guarantee. Customers should satisfy themselves that the products are suitable for the intended purpose.

PRODUCT DATA SHEET

EVERBUILD® Fire Mate®

An intumescent acrylic sealant that swells when exposed to temperatures in excess of 125°C to prevent the passage of fire and smoke

PRODUCT DESCRIPTION

EVERBUILD® Fire Mate® is a four hour rated, one part, emulsion acrylic based, intumescent Acoustic sealant that gives a firm yet flexible seal to joints in a variety of fire rated structures. The product, in suitably designed joints, will resist the passage of fire for up to 4 hours. The selected fillers used in this formulation also make it suitable for use as an acoustic sealant.

USES

- Sealing joints, voids and irregular holes in fire walls, partitions and other structures; also for maintaining the integrity of pipes and cables that penetrate them.
- For internal perimeter pointing of fire rated door and window frames.

CHARACTERISTICS / ADVANTAGES

- When exposed to heat, it swells greater than 150% of its original size, creating a char that will resist the passage of fire for up to 4 hours.
- No priming required for most construction substrates.

- Permanently flexible with more than 100% elongation to ISO8339.
- For use in joints up to 50mm wide.
- Excellent acoustic properties for sound deadening - Average noise reduction of 24db (100-3150Hz).
- Non slump - easy to apply and tool off.
- Fast cure - tack free in 15 minutes.
- Overpaintable.
- Certified under the harmonized European standard EN15651 for façade for interior applications in compliance with the Construction Product Regulation.

APPROVALS / STANDARDS

Tested following the principles of BS EN 1366-4:2006 as detailed in Warrington Fire Research Report No. 412463(2019). BS EN 1366-3:2009 as detailed in Warrington Fire Research Report No. 412725(2019). Acoustic rated to BS EN ISO 140/3. Tested for air permeability to EN13141-1. EN15651-1 F-INT.

PRODUCT INFORMATION

Packaging	295ml cartridge
Shelf Life	24 months from date of manufacture
Storage Conditions	Store in cool dry conditions between +5°C and +30°C. PROTECT FROM FROST
Joint Design	Max Width - 50mm Movement - +/- 7.5% of original size
Curing Time	3 to 5 days, dependent on thickness, ambient temperature and humidity
Skin Time	10 minutes

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All surfaces must be clean, dry and dust free. All loose or flaking surface coatings, and old sealant and mastic joints, should be removed before application.

APPLICATION METHOD / TOOLS

The surfaces to be must be clean, dry and free from dust, grease and other contaminants. Improve adhesion by wiping surface with EVERBUILD GLASS CLEANER allowing all solvent to evaporate before applying sealant. Priming is generally not required, although we always advise testing small areas prior to use. Large voids should first be filled with EVERBUILD FIREFOAM B1 to maximize fire rating.

Cut the tip of the cartridge taking care not to damage the thread. Apply nozzle and cut at an angle of 45° with an opening slightly larger than the gap to be sealed. Apply using a standard sealant gun. Best results will be obtained by keeping an even pressure on the trigger and keeping the gun at a constant angle to the surface being sealed. To ensure a proper bond, always smooth the sealant down with a spatula or piece of wood wetted with linseed oil or white spirits. An improved joint appearance can be achieved by placing masking tape to both sides of the joint, removing within 5 minutes of application.

Single seal joints should be on the fire rated side of the structure.

LIMITATIONS

- Not for use on substrates that may bleed oils, solvents or plasticisers.
- Not for use where joints are constantly immersed in water, or as part of structural glazing systems.
- Known to have compatibility problems with some cPVC pipping

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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Product Data Sheet

EVERBUILD® Fire
Mate®

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