

| Code | Description | Size | Colour |
|-------|----------------------------------|-------|--------|
| 20060 | Gorilla Firecryl Acrylic Sealant | 310ml | White |
| 21427 | Gorilla Firecryl Acrylic Sealant | 600ml | Grey |

1. Description

Gorilla Firecryl Acrylic Sealant is a fire-resistant, smoke tight with heat load intumescent plasto-elastic sealant based on acrylic dispersion that has a high dB attenuation.

2. Characteristics

- Prevents the passage of fire and smoke
- Intumesces when exposed to temperatures higher than 120°C.
- Can be painted over after curing
- Very easy to apply
- Colourfast and waterproof after curing
- Very good adhesion on porous surfaces
- Acoustically rated for sound deadening applications

3. Technical Data

| | |
|---|------------------------------------|
| Base: | Acryl Emulsion |
| Application Temperature: | +5°C / +40°C |
| Flow: | <2mm (ISO 7390) |
| Density: | 1,57g/ml |
| Skin over time: (23°C/55%) | 20 minutes |
| Shelf life between +5°C and +25°C: | 12 months |
| Joint Movement Capacity: | Ca. 12,5% |
| MECHANICAL PROPERTIES (2MM FILM) | |
| Shore A hardness (3 s): | 40 MPa (DIN 53505) |
| 100% Modulus: | 1 (N/mm ²) (DIN 53504) |
| Elongation at break: | 50% (DIN 53504) |
| FIRE RATING PROPERTIES | |
| Between concrete/conc. 25mm: | 360 minutes (BS476) |
| Between concrete/conc. 20mm: | 360 minutes (CSTB) |
| VOC (%) | <1% |
| VOC (g/litre) | <15 |

* This can vary according to environmental circumstances such as temperature, humidity, substrate, etc.

| STC RATING (NOTE: FULL DETAILS MUST BE READ IN THE MARSHALL DAY ACOUSTICS REPORT) | |
|--|------------|
| Winstone Wallboard System | STC Rating |
| GBTLA60 | 59 |
| GBTLA60 | 55 |
| GBTLA90a | 58 |
| GBSLA30a | 56 |
| GBSLA60a | 55 |
| GBDFA30 | 56 |
| GBFA60 | 57 |
| GBSCA30 | 57 |
| GBSCA60 | 55 |

4. Applications

- Specially for indoor joints where high demands for a fire rated sealant are required
- Linear joints in fire retardant constructions in buildings and housing
- Perimeter pointing round door and window frames, concrete and brickwork
- Joints between walls and ceilings
- Joints around pipe and cable tray – Refer to applicable report www.holdfast.co.nz.
- Joints between walls and ceilings or floors (plasterboard and other substrates) where an acoustically rated sealant is required to have STC (Sound Transmission Class) of 60.

NOTE: Joint dimensions do have an effect on the fire retarding properties. The deeper the joints are sealed the better the fire retarding properties. In general Firecryl will show good adhesion without a primer on building materials like concrete, brickwork, painted wood, anodised aluminium and PVC. Please refer to the technical fire reports for specifics.

5. Packaging

Cartridge 310ml & Sausage 600ml (net content)

6. Shelf Life

At least 12 months in unopened packaging in a dry storage place at temperatures between +5°C and +25°C. Protect against frost. Store in cool, dry conditions out of direct sunlight below 30°C and away from naked flame or source of heat.

7. Application Instructions

Surfaces

Preparation: Surfaces must be clean, dry and sound. Adhesion tests prior to application are recommended. Finish with white spirit.

Joints

Back up material: Install PEF rod to the right joint depth and in order to prevent three side adhesions.

Dimensions:

| | |
|-------------------|--------------------------------|
| Minimum Width: | 4mm |
| Maximum Width: | 25mm |
| Joint Connection: | 4-8mm (width) – 6mm (depth) |
| | 10-12mm (width) – 8mm (depth) |
| | 14-16mm (width) – 10mm (depth) |
| | 18-20mm (width) – 12mm (depth) |
| | 22-24mm (width) – 14mm (depth) |

Application Limitations

Among others not recommended for continuous water emersion and not for sealing PE, PP, Teflon and bituminous surfaces. Painting over with highly filled emulsion paints can cause cracks in the paint film.

Approvals

- General: EN 1366-4 – Test Report 9297, University of Ghent
- General: EN 1366-4 – Test Report 13492, University of Ghent/ Warringtonfire
- UK: BS476:Part20:1987 – WRFC N° C113610
- UK: BS476:Part20:1987 – WRFC N° 139271
- France: Rapport d'Essai RS03-007
- Holland: NEN 6069:1997 – TNO Rapport 2000-CVB-R00703
- Belgium: NBN 713.020 – Test Report 9297 – University of Ghent
- Australia: WFRA 45716 \$ 45717 to AS1530.4 and AS4072.1
- Italy: CSI 1125 RF France: CSTB no: 93.35164
- EC: IMO Fire Test Procedure Code, Annex 1, Part 5 and Part 2
- EC: No: MED 0050288 (96/98 EC (MED))
- International: ISO 1716/1973
- EC: IMO resolution A653 (16)
- BRANZ TEST REPORT FAR 2005

| TEST RESULTS: TEST REPORT 9297C – UNIVERSITY OF GHENT | | | | |
|---|----------------------------|--|-------------------------|------------------------------------|
| Wall Thickness | Joint Dimension | Backing Material | Integrity | Heat insulation |
| 200mm | Width: 20mm Depth: 20mm | PE | >240 Minutes | 210 Minutes |
| 100mm | Width: 11mm Depth: 10mm | PE | >240 Minutes | 187 Minutes |
| TEST RESULTS: TEST REPORT 13492A – UNIVERSITY OF GHENT 2008 | | | | |
| Wall Thickness | Joint Dimension | Backing Material | Integrity | Heat insulation |
| 200mm | Width: 15mm Depth: 15mm | PE | >240 Minutes | 240 Minutes |
| TEST RESULTS: TEST REPORT 13492A - UNIVERSITY OF GHENT 2008 PRODUCT COMBINATIONS – VERTICAL JOINTS | | | | |
| Product Tested | Wall Thickness | Joint Dimension | Backing Material | Flame Resistance in Minutes |
| a.Firecryl (20060, 21427) b. Gorilla® Nailpower® FR Click&Fix (20160, 20169) | 200mm | a.Width: 25mm Depth: 25mm b.Width:25mm Depth: 175mm | None | >240 Minutes |
| a.FixAll Firestop MS (56129) b. Gorilla® Nailpower® FR Click&Fix (20160, 20169) c. Firecryl (20060, 21427) | 200mm | a.Width: 40mm Depth: 20 mm b.Width: 40mm Depth: 150 mm c.Width: 40mm Depth: 30 mm | None | >240 Minutes |
| TEST RESULTS: CSI – ITALY 2004 | | | | |
| Wall Thickness | Joint Dimension | Backing Material | Integrity | Heat Insulation |
| 200mm | Width: 20mm Depth: 20mm | PE | >180 Minutes | >180 Minutes |
| 200mm | Width: 10mm Depth:120mm | PE | >180 Minutes | >180 Minutes |
| 100mm | Width: 10mm Depth: 10mm | PE | 120 Minutes | 120 Minutes |
| TEST RESULTS: CSI – ITALY 2004 WALL PENETRATIONS | | | | |
| Type of penetration | Wall Thickness | Integrity | Heat Insulation | |
| 160mm steel tube | 200mm | >180 Minutes | >180 Minutes | |
| 20mm steel pipe | 200mm | >180 Minutes | >180 Minutes | |
| 20mm steel pipe | 100mm | >180 Minutes | >180 Minutes | |
| 20mm steel pipe | 100mm | >180 Minutes | >180 Minutes | |

8. Health and Safety Recommendation

- Apply the usual industrial hygiene
- Please refer to the MSDS for more detailed information

Remark

The directives and data contained in this documentation is provided in good faith and accurately reflect Soudal's knowledge when its products are properly stored, handled and applied under normal conditions in accordance with Soudal's recommendations. In practice, the diversity of the materials, substrates, environments, site conditions, product storage, handling and application are such that no warranty can be given in respect to the merchantability or fit for purpose, of any product. All users must determine the product suitability for their purposes through testing. This technical data sheet and product properties may change without notice so users, suppliers and retailers of Soudal products should always check that the data sheets they have are the latest. To the maximum extent permitted by law, Soudal disclaims all warranties in relation to either the manufacture, storage and end use of the product. All orders are accepted subject to our current terms of trade. **If any clarification is required, please contact Soudal Technical Services or email sales@soudal.co.nz.**

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