

TECHNICAL DATA SHEET (TDS)

FLEXSEAL H-1 & H-2 Jet



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ID Product Code 210

ONE-PART, SELF-LEVELING POURABLE POLYURETHANE SEALANT

Product description:

Flexseal H-1 is an elastic, one component, self-leveling polyurethane sealant specifically developed to be used as a pourable floor joint sealant in applications where a high chemical resistance is requested. It cures under the influence of atmospheric moisture to form a permanently elastic sealant with excellent adhesive properties and resistance to ageing and weathering.

Chemical characteristics:

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| Appearance | Semi liquid |
| Color | Grey, Beige others colors upon request. |
| Chemical nature | Polyurethane |
| Curing Mechanism | Moisture-curing |
| Shore A (23°C – 50% rel. humidity; DIN 53505) | 26 |
| Density | 1,48 ± 0,05 |
| Tack-free time (min) (23°C – 50% rel. humidity) | 60-80 |
| Estatic modulus at 100% (N/mm ²) ISO 37 DIN 53504 | ≥ 0.4 |
| Tensile Strength (N/mm ²) ISO 37 DIN 53504 | ≥ 1.8 |
| Elongation (%) ISO 37 DIN 53504 | ≥ 750 |
| Application temperature | From +5°C to +40°C |
| Temperature resistance | -40°C/+90°C (for short period up to 120°C) |
| Shelf life | 15 months from production date in its original packaging (unopened container) between 5° and 25° C in a cool dry place. |

Instruction for use

Surface preparation

Surfaces must be clean, dry, free of water, oil, grease or rust and of sound quality. Remove all loose particles or residues with a jet of compressed air, sandpaper or hard brush. Glass, metal and other non-porous surfaces must be free of any coatings and wiped clean with solvent. Pre-cast panels using form-release agents other than polyethylene film must be sandblasted or mechanically abraded and dust free. Porous substrates: concrete, cementitious renders, mortars, brick, etc. could be primed with FSPrimer by using a brush. Before sealing allow a flash off time of at least 15 min.

Sealing

Recommended application temperatures: 15°-25°C. For easier use or cold weather application we recommend the material to be stored at approximately 25°C prior to use. In order to guarantee free movement of sealant in joints, it is imperative that the sealant does not adhere to the bottom of the joint, therefore for correct joint making a closed-cell polyethylene bead (joint backing rod) is to be placed at the proper depth. Apply appropriate primer to joint sides and observe waiting time to avoid that trapped solvent, in condition of rising temperature, can blow bubbles in the uncured sealant. For best performance, sealant should be gunned into joint when the joint slot is at mid-point of its designed expansion and contraction. Firmly extrude sealant into the joint making sure that it is in full contact with the sides of the joint and



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with the backing rod at the bottom. Keep the nozzle in the sealant, continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment. Avoid overlapping of sealant to eliminate entrapment of air.

All joints must be properly designed and dimensioned by the consultant and the main contractor in accordance with the relevant standards, materials and technical values. The recessed joint design protects the sealant against mechanical loads. Fill the joint with Flexseal 2.0 mm below the surface of the joint sides.

Pag | 2 Finishing indications and limitations

As sealant is self-levelling, it doesn't need to be tooled. Masking tape should not be used, just paying attention to the product not being put in excess respect to the joint volume capacity. Flexseal is resistant to chemical spillage by: dilute acids, dilute alkalis, aviation fuels, diesel fuels, lubricant oils, petrol, kerosene, cleansing agents, sea water, lime water.

Avoid exposure to high levels of chlorine (avoid to seal joints in chlorinated swimming pools). Avoid contact with alcohol and other solvent cleaners during cure. Do not apply when moisture-vapour transmission condition exists from the substrate as this can cause bubbling within the sealant. The ultimate performance of Flexseal depends on good joint design and proper application with joint surfaces properly prepared. Do not cure in the presence of curing silicone sealants.

PREPARATION



CLEAN THE SURFACE AND THE JOINT

APPLICATION



POUR INTO THE JOINT

FINISHING



REMOVE MASKING TAPE AND THE JOINT IS SEALED

Application surfaces

- Movement and connection joints in floors
- Indoor and outdoor applications for pedestrian and traffic areas (petrol station, decks, car parks)
- In warehouses and production areas
- Joints in waste water and sewage treatment plants
- (preliminary advice of information to technical department is requested)
- Floor joints in tunnel construction
- Floor joints in working areas and runaways of airports (**Flexseal H-2 JET**).

Advantages

- One part - no mixing on site
- Movement capability 25%
- Bubble-free curing
- Good mechanical and chemical resistance
- Very good adhesion to most construction materials
- Permanently elastic over a wide range of temperatures
- Approval / Standards Conforms to ISO 11600 F 25 HM
- Conform to BS 5212 for determination of resistance to heat ageing and fuel immersion



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Safety procedures

As far as the proper working procedures is concerned, we recommend to consult Material Safety Data Sheets issued according to E.U. rules and to follow your national laws concerning safety in the working place. MSDS is available on our web site www.bellinzoni.com.

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Packing

Drums of 14 kg (containing 2 plastic bags of 7 kg),

Trademark

BELLINZONI® is a registered trademark of Bellinzoni company. The law considers a trademark to be a form of property and any misuse can be persecuted by law. Bellinzoni s.r.l. declares that our product FLEXSEAL is **MADE IN ITALY**.



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