

ALSAN FLEX 2711 CO

TECHNICAL DATA SHEET

APTDS-E-173-01

DESCRIPTION

Alsan Flex 2711 CO is a one-component, moisture curing, elastic sealant and adhesive. It is a medium-modulus polyurethane. It possesses excellent adhesion to most typical construction materials such as cement based materials, brick, ceramic, glass, wood, galvanized and painted iron sheets. It is suitable for indoor and outdoor applications.

MATERIAL

1-component, fast-curing and flexible PMMA-based (polymethyl methacrylate) primer.

PROPERTIES

- 1-component sealant, ready to use
- Over-paintable
- Flexible and elastic
- Solvent free and odorless
- Very low emission
- Bubble-free curing
- Absorbs impact and vibration
- Very good adhesion to most construction materials
- Good mechanical resistance
- Good weather and ageing resistance
- Non sagging
- Non corrosive
- Do not shrink

AREA OF USE

Joint sealant:

- can be used for both vertical and horizontal joints.
- can be used to soundproof pipes between concrete and sheathing, caulk between partitions, seam seal, seal in construction (metallic- or wood-based) etc.

Adhesive:

- suitable for roof tiles bonding, prefabricated elements, flashing strips, concrete headbands, thresholds, stair steps, skirting boards, crash protection boards, covering boards etc.

Limitations: Alsan Flex 2711 CO is not suitable for PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and bituminous substrates. It is not suitable in combination with chlorides (pools). A slight yellowing may occur when white sealant is exposed to ultraviolet rays.

STANDARDS AND CERTIFICATIONS

Alsan Flex 2711 CO conforms to:

- EN 15651 part 1:2012: F-EXT-INT-CC class 25LM
- EN 15651 part 4:2012: PW-EXT-INT-CC
- CE Marking – DoP CCHEU1901
- A+ classification (french VOC regulation)
- the requirements of LEED. Low-Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168

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PRODUCT APPLICATION

Before application, be sure that surfaces are clean, dry, homogeneous and free from all contamination (oils and grease, dust and loose or friable particles). Cement laitance must be removed.

Apply Alsan Flex 2711 CO evenly. If necessary, use masking tape when sharp joint lines are required. Remove the tape whilst the sealant is still soft. Sleek joint with smoothing liquid for a perfect sealant surface.

Making joints:

After adapted substrate preparation, insert an adapted backing rod (closed cell, polyethylene foam) to the required depth (width/depth ratio should be 2:1 for floor joints and 1:2 for façade joints). Extrude Alsan Flex 2711 CO into the joint to fill making sure that it is full contact with the side of the joint. Avoid air entrapment. Tool firmly against joint sides to ensure good adhesion.

Making bonds:

After adapted substrate preparation extrude Alsan Flex 2711 CO on the bonding surface at intervals of a few centimeters. Bond design could be strips or spots according to the substrates and the needs. Press firmly the element to be bonded into position. If necessary, use temporary "mechanical" fixings such as adhesive tape, wedges, or props to hold the assembled elements together. Maintain it until Alsan Flex 2711 CO is cured (i.e. after 24 to 48 hours at +23°C for a thickness between 2 to 3 mm).

CONSUMPTION

Joints:

The design of the joint is made to suit the movement capability of the sealant. For movement joints width must be between 10 mm and 35 mm. A width to depth ratio of ~ 2 : 1 (for floor joints) and ~ 1 : 2 (for façade joints) is commonly required.

Consumption (approximate)						
Width	Depth	15 mm	20 mm	25 mm	30 mm	35 mm
Depth	Width	8 mm	10 mm	12 mm	15 mm	17 mm
Joint length / 600 mL		5 m	3 m	2 m	1.3 m	1.1 m
Joint length / 300 mL		2.5 m	1.5 m	1 m	0.7 m	0.6 m

Bonding:

Consumption (approximate)	
Spots	Ø: 3 cm / thickness:0.5 cm
Number of spots per cartridge	~85
Strips	Section 5x5 mm
Length per cartridge	12 meters

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PROPERTIES

	ALSAN FLEX 2711 CO	Test method
Chemical base	1-component polyurethane	-
Curing system	Moisture	-
Density	~1.1 (kg/l)	-
Skinning time	~60 minutes (+23°C / 50% r.h.)	-
Curing rate	~3.0 mm / 24h (+23°C / 50% r.h.)	-
Sag flow	0 mm (ISO 7390)	-
Service Temperature	-40°C to +70°C	-
Application temperature	+5°C to +40°C	-
Shore A Hardness	~ 40	ISO 868
E-modulus @23°C	~ 0.5 N/mm ²	ISO 8339
Elastic Recovery	> 80%	ISO 7389
Tensile strength	~ 2 N/mm ²	ISO 37
Elongation at break	~ 500%	ISO 37

PACKAGING

	Colors	Box
Cartridge (CT) 300 mL	White/Grey	12 CT300
Foil Pack (FP) 400 mL	White/Grey	12 FP400
Foil Pack (FP) 600 mL	White/Grey	12 FP600

SHELF LIFE AND STORAGE CONDITIONS

12 months from date of production if stored in undamaged original and unopened packaging
Store in dry conditions and protected from direct sunlight at temperatures between +10°C and +25°C.

ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)

For information and advice on the safe handling, storage and disposal of the chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.