



TSIRCON CO LTD

MANUFACTURERS & TRADERS
OF BUILDING MATERIALS

Ημ. έκδοσης 01/2010

TSIRCO- FLEX II V

Description: Single-component polyurethane elastomer. Suitable for many applications including Vertical Expansion Joints, Adhesive, Gap filling and many others. Classification SNJF elastomer 1st category. Primer omitted on anodised aluminium and mortar. For horizontal joints: Tsirco-Flex II F is recommended. Tiles adhesion certificate.

Applications: Adheres on most supports in the building industry: Concrete, glass, anodised aluminium, wood.

- ✓ Caulk seals used in heavy and light prefabrication and traditional masonry.
- ✓ Tile, ridge tile, skirting and bead adhesion in interior decorating.

Characteristics:

Tsirco-Flex IIV has the following properties:

Skin formation time (23°C 50% HR)		: 75 – 105'
Polymerised thickness after 24 hrs (23°C, 50% HR)		: 3mm
Resistance to flow at 23°C	ISO 7390	: ≤ 3mm
Resistance to flow at 50°C	ISO 7390	: ≤ 3mm
Application temperature		: + 5°C ≤ T ≤ + 40°C

On polymerised joint:

Hardness, Shore A	DIN 53 505	: 35
Modulus of elasticity (at 100%)	ISO 8339	: 0,35
Elongation at break	ISO 8339	: 250%
Elastic recovery	ISO 7389	: > 70%
Movement capability		: 25%
Service temperature		: - 20°C ≤ T ≤ + 80°C

Chemical Resistance (for guidance): Water, cleaning agents, accidental spray with oils, hydrocarbons, and diluted acids and bases. Due to the sensitivity of polyurethane to UV rays, light shades change colour. This change in appearance does not modify their mechanical properties or leaktightness.

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Classification and Guarantee: (Complete copy of documents available on request). Qualification certificate, classification SNJF, Packing seal and complementary sealant for construction. First category elastomeric sealant. Primer omitted on anodised aluminium and concrete.
Test report CEBTP n° 2352-6-091-1: Tiles adhesion certificate.
On-site manufacturing certified by ISO 9001.

How to use

Respect SNJF professional laws concerning the suitability of the product for tightness of joints.

1. Preparation of surfaces

Surfaces must be clean, dry and free from dust, grease or parting compound. Concrete surfaces must be mature (at least 4 weeks). Users must check that the mastic is compatible with the surface in terms of adhesiveness, staining and chemical compatibility (test a section first). Correctly size the joint according to SNJF professional laws. Joints with width up to 30mm can be filled in one stage (single application).

2. Application

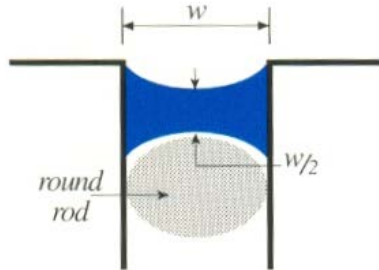
- If necessary, apply a thin layer of Tsirco-Sealant primer on the surface.
- After the primer has dried, press a flexible non-adhesive joint filler into the joint (back-up material). The back-up material should be free of holes to ensure that bubbles do not form in the joint. The purpose of the back-up material is to control the depth of sealant, to provide support for tooling of sealant in the joint and to serve as a “bond breaker” to prevent sealant from bonding to the back of the joint. The diameter of the back-up material should be about 25% greater than the joint width.
- Joints which are expected to experience cyclic movement should have a depth which is half the width of the joint with a minimum depth of 10mm. For trafficked joints and joints subject to hydrostatic pressure the minimum depth should be 20mm.



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Examples of joint configuration, consumption of material and back-up diameter



Width	Depth	Consumption	Back-up diam.
10mm	10mm	100cc / m	15mm
15mm	10mm	150cc / m	20mm
20mm	10mm	200cc / m	25mm
30mm	15mm	450cc / m	40mm
40mm	20mm	800cc / m	50mm
50mm	25mm	1250cc / m	75mm

- Protect the sides of the joint with protection strips.
- Apply the material with the use of barrel gun. For narrow joints, apply the mastic in one movement. For wide joints, over 30mm the mastic must be placed in three stages in the joint. Two at the corners of the joint and one in the middle. This is to ensure that no air is trapped in the sealant. Smooth out with soapy water. Press the mastic against the edges and the joint filler while taking care not to create air bubbles. Remove protection strips.
- Clean equipment with White Spirit before drying. Polymerised mastic can be scrapped off.
- May be painted after polymerisation is complete. Use acrylic or vinyl dispersion paints after testing a section.

Safety:

- Contains polyisocyanates.
- Avoid contact with skin.
- In case of contact with eyes, rinse immediately with water and consult a physician.
- Use only in well ventilated areas. Keep out of reach of children.
- Consult Tsirco-Flex II V Safety Data Sheet.

Shelf Life-Storage: 9 months from the manufacturing date, in its original unopened package away from humidity. Store in a properly ventilated room at a maximum temperature of 30°C.