



TSIRCON CO LTD

MANUFACTURERS & TRADERS
OF BUILDING MATERIALS

Ημ. έκδοσης 08/2021

TSIRCO- FLEX II F

Description: Single-component polyurethane elastomer, suitable for movement joints, both vertical and horizontal, tile adhesive, gap filling and generally where elastic loading is required.

Tsirco- Flex II F has a tiles adhesion certificate. (CEBTP)

Applications: General purpose elastic bonding, for the Industry including Construction, on most supports: Concrete, tile, anodised aluminium, wood.

- ✓ Tiles adhesion
- ✓ Interior decorating
- ✓ Skirting and baseboard
- ✓ Expansion joints

Characteristics:

Skin formation time (23°C 50% HR)	: 45'
Polymerised thickness after 24 hrs (23°C, 50% HR)	: 3.5mm
Application temperature	: + 5°C ≤ T ≤ + 40°
Density	: 1.3 g/cm ³
	:

On polymerised joint:

Hardness, Shore A	ISO 868	: 30-40
Modulus of elasticity (at 100%)	ISO 8339	: 0,40 MPa
Modulus at beak	ISO 8339	: 0,60 MPa
Tensile Strength	ASTM D412	: 2.2 MPa
Elongation at break	ISO 8339	: 250%
Elongation at break	ASTM D412	: 600%
Elastic recovery	ISO 7389	: >70%
Resistance to flow at +23°C	ISO 7390	: < 3mm
Resistance to flow at +50°C	ISO 7390	: < 3mm
Service temperature		: -20°C ≤ T ≤ + 80°C
Shrinkage	ISO 10563	: ≤ 10%



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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.

Classification and Guarantee:

Test report CEBTP no 2352-6-091-3: Tiles adhesion certificate.

Complies to EN 15651-1:2012, Type F EXT-INT CC; EN 15651-3 Type S;

EN 15651-4 Type FW EXT-INT CC

On-site manufacturing certified by ISO 9001.

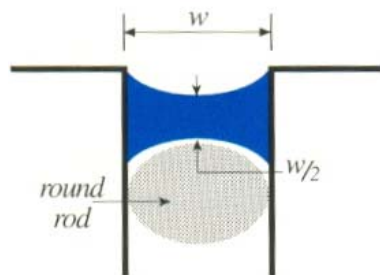
Use:

1. Preparation of surfaces

Surfaces must be clean, dry and free from dust, grease or parting compound. Concrete surfaces must be dry and stable (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).

2. Making the joint

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.



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- If necessary, apply a thin layer of Tsirco-Sealant primer on the vertical sides of the joint.
- 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. In case of joints wider than 50mm where the depth will exceed 25mm, apply the same method in two layers with 24 hours interval between each layer. 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.
- When used for bonding heavy materials exceeding 8Kg/m² must be supported for at least 15 hours.

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 F 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.