

REC STRIP & SEAL 300

HIGH PERFORMANCE JOINT SEALING SYSTEM

DESCRIPTION

The **REC STRIP & SEAL 300** Jointing System consists of Hypalon Strip and Rec Dur 100 epoxy resin adhesive. **REC STRIP & SEAL 300** is a highly elastic, rot-proof and chemically resistant sealing sheet with a thickness of 1 mm or 2 mm. Rec Dur 100 adhesive is epoxy resin based and establishes a strong bond to the substrate.

PRIMARY APPLICATIONS

For sealing construction joints, expansion joints, connection joints, cracks and fissures on concrete and masonry for:

- Tunnels, culverts and ventilation ducts.
- Swimming pools.
- Waste water treatment plants.
- Basements and cellars.
- Roof connections.
- Reservoirs and water retaining protection.
- Silos.
- Industrial floors.
- Failed joint sealants.

FEATURES/BENEFITS

- Resists water pressure.
- Applicable on dry and damp (not wet) surfaces.
- Permanent elasticity even at low temperatures.
- Resistant to chemicals.
- Suitable for contact with potable water.
- Can be internally or externally applied.
- Accommodates variation in joint width.
- Accommodates movement in more than one dimension.
- Easy to install.
- For large expansion joints or cracks.
- Weather resistant.
- No need to remove existing failed sealant.
- Suitable for new and existing joints.
- High joint movement capacity.
- Also suitable for crack repair and sealing around penetrations.

TECHNICAL INFORMATION

PROPERTY	VALUE
Colour	Hypalon Strip - Grey Rec Dur 100 - Grey
HYPALON STRIP	
Elongation at break	>400%
Tensile strength	>6.0 N/mm ²
Tear propagation strength	>300 N/cm

PROPERTY	VALUE
Maximum permissible permanent elongation	1.0 mm strip - 10% of non adhered width 2.0 mm strip - 25% of non adhered width For higher movement place and fix in a loop
Artificial weathering	10,000 hours passed
Pulsation resistance (5% extension, 4 cycles per sec)	>100,000 cycles*
Vibration resistance (5% expansion, 120 cycles per sec)	>50,000 cycles*
Water pressure resistance	Depending on joint design, up to 1 - 2 bar (25 psi back pressure)
Bond of system	Concrete: > 2.0 N/mm ² (Substrate failure)

PACKAGING

REC STRIP & SEAL 300 is packed in 10 m roll.

SHELF LIFE

Minimum 1 year in unopened original sealed packing stored in dry warehouse conditions.

DOSAGE

Per linear metre of **REC STRIP & SEAL 300**, width 10 cm, approx. 0.4 - 0.6 kg REC DUR 100 adhesive (depends on surface roughness, etc.).

DIRECTIONS FOR USE

a. SURFACE PREPARATION

Concrete: The concrete surfaces should be mechanically cleaned, preferably by blast cleaning followed by vacuuming. The laitance must be removed to establish good adhesion. All surfaces must be clean, sound and free from any oil, grease or other contaminants. Concrete should be at least 3 weeks old.

Steel: Grind or grit blast to a clean bright metal finish.

b. HYPALON STRIP PREPARATION

Thoroughly wipe both sides of the **REC STRIP & SEAL 300** Hypalon sheeting strips with Thinner C. Allow to dry. Do not use too much solvent and avoid damaging the red masking tape. Leave to dry, minimum one hour, maximum 8 hours.

c. APPLICATION

- REC STRIP & SEAL 300** is activated on both sides with Thinner C using a clean cloth. Leave to dry for at least 1 hour - max 8 hours.
- Use masking tape either side of the joint to provide a neat edge and over the middle of the new or existing joint.
- Mix REC DUR 100 (components A and B) for a minimum of 3 minutes until the mix is homogeneous.
- Apply REC DUR 100 adhesive on both sides of the joint onto the prepared substrate. Layer thickness 1 - 2 mm, width (on each side) at least 50 - 60 mm.
- Remove masking tape from the middle of joint.
- Place activated **REC STRIP & SEAL 300** in position with red tape facing upwards and roll it to remove entrapped air.
- Apply REC DUR 100 adhesive on top of the strip.
- Remove masking tapes from the joint sides as well as the red middle tape from the **REC STRIP & SEAL 300**. Smooth REC DUR 100 with brush.
- REC STRIP & SEAL 300** overlap connections should be a minimum of 30-50 mm and bonded with hot air welding gun and plate.

PRECAUTIONS/LIMITATIONS

- This joint sealing method can be carried out horizontally, vertically or overhead. However, it should be noted that **REC STRIP & SEAL 300** is not a contact adhesive and some support of the uncured strip may be required on overhead structures.
- The **REC STRIP & SEAL 300** must be protected from mechanical damage.
- Where exposed to water pressure the strip must be supported in joint by foam or sealant. Limit without support: 5.0 mm joints max, 0.5 bar water head using 2.0 mm thick **REC STRIP & SEAL 300** strip.

STANDARDS

Hygiene Institut: Test report No. K-178989-09 drinking water suitability according to KTW-Guideline of the Federal Environment Agency (UBA), July 2009. Assessment for resistance to root penetration according to CEN/TS 14416.

CLEAN-UP

Clean tools immediately with REC Cleaner.

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