

REC FLEX HP10

HOT-APPLIED, SINGLE-COMPONENT, ELASTOMERIC JOINT SEALANT

DESCRIPTION

REC FLEX HP10 is a high-quality, hot-applied, single-component polymeric joint sealant. It provides excellent adhesion, high resilience, and resistance to deterioration caused by weathering and environmental exposure. **REC FLEX HP10** is specifically formulated for the economical and effective sealing of cracks and joints in Portland cement concrete and asphalt concrete pavements. Further, it is suitable for large, medium, and small-scale sealing projects and provides an effective and economical solution for joints and cracks subjected to traffic and environmental conditions.

PRIMARY APPLICATIONS

REC FLEX HP10 is recommended for sealing:

- Highway and road pavement joints and cracks.
- Asphalt concrete pavement cracks and joints.
- Portland cement concrete pavement joints.
- Airport runways and airfield pavements.
- Trafficked pavement joints.
- Joints in water-retaining structures.
- Floor and roof joints in buildings.
- Maintenance and rehabilitation projects.

FEATURES/BENEFITS

- Excellent and durable adhesion to properly prepared surfaces.
- High resilience under demanding service conditions.
- Excellent resistance to weathering and environmental deterioration.
- Suitable for concrete and asphalt pavements.
- Suitable for trafficked pavement applications.
- Suitable for floor and roof joints in buildings.
- Suitable for water-retaining structures.
- Suitable for airport runways and other pavement applications.
- Single-component, hot-applied formulation.

STANDARDS

REC FLEX HP10 complies with the ASTM D1190, ASTM D3405 and ASTM D6690 — Type I, II and III.

TECHNICAL INFORMATION

REC FLEX HP10	Single Component
Penetration mm/10	80
Resilience	63 %
Flow (cm)	0.1
Bond test 50 % extension at -29° C	Pass
Viscosity at 193° C (cps)	2,000
Weight / liter (kg)	1.20
Recommended Pouring Temperature	188° C
Recommended Safe Heating Temperature	199° C
VOC Content (g/L)	0

APPLICATION PROCEDURE

MELTING

REC FLEX HP10 should be melted in an oil-jacketed melter-applicator equipped with an agitator, a separate thermometer for the oil bath and a separate thermometer for the melting vat. The sealant may be applied when ambient air and pavement temperatures are 4°C or higher, provided the pavement is clean, dry, and suitable for application. Do not exceed the recommended safe heating temperature.

SURFACE PREPARATION

All joints and cracks to be sealed must be clean and dry. Remove all: Dust, Dirt, Loose particles, Laitance, and other contaminants that may interfere with adhesion. Where required, cracks should be properly routed to produce clean and sound sidewalls and an appropriate sealant reservoir.

Important: Application of sealant to frozen or wet pavement may result in loss of adhesion and premature sealant failure.

NEW CONCRETE PAVEMENT JOINT SEALING

A typical joint configuration is:

Width: 3/8 in. (9.5 mm)

Depth: 1/2 in. (12.7 mm)

Width-to-depth ratio: Approximately 1:1

Actual joint dimensions should be determined in accordance with the requirements of the applicable highway, pavement, or project authority. A heat-resistant backer rod may be installed in the joint opening to control sealant depth and reduce sealant consumption. The backer rod must be compatible with the sealant and suitable for the application temperature.

ASPHALT PAVEMENT & MAINTENANCE SEALING

For optimum sealing performance, cracks or joints should be routed to provide an appropriate sealant reservoir.

Typical recommended configuration:

Width: 1/2 in. (12.7 mm)

Minimum depth: 1/2 in. (12.7 mm)

Width-to-depth ratio: Approximately 1:1

For joints approximately 1 in. (25.4 mm) wide, a minimum sealant depth of 1/2 in. (12.7 mm) is suggested.

A heat-resistant backer rod may be installed where required to control sealant depth and reduce sealant consumption. Joint dimensions should be confirmed against the project specification and applicable pavement authority requirements.

APPLICATION METHOD

Apply **REC FLEX HP10** into the prepared crack or joint using suitable hot-pour application equipment.

The joint should be slightly overfilled during application. Immediately after application, use a soft rubber U-shaped squeegee to form a wipe zone approximately 3–4 in. (76–102 mm) wide along the crack or joint and finish the sealant flush with the pavement surface. Avoid contamination of the freshly applied sealant and allow sufficient time for the material to cool and develop adequate strength before opening the area to traffic, in accordance with project requirements and site conditions.

APPLICATION LIFE / REHEATING

The approximate application life of **REC FLEX HP10** at the recommended temperatures is 12–15 hours. The application life may be extended by adding fresh material as the quantity of sealant in the melter decreases. **REC FLEX HP10** may be reheated once within the prescribed safe heating-temperature limits. Repeated reheating may cause material degradation, excessive thickening, stringiness, or gelling in the melter. When the application life has been exceeded and the material becomes excessively thick, stringy, or begins to gel, the material should be removed from the kettle immediately and discarded.

COVERAGE / CONSUMPTION

Typical consumption is 5.76 kg per 100 linear feet.

Actual consumption will vary depending on joint dimensions, crack width, depth, routing, and application conditions.

PACKAGING

REC FLEX HP10 is available in 6kg, 20 kg and 30 kg packs.

STORAGE

REC FLEX HP10 have a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 35°C. If these conditions are exceeded, Reckon Technical Department should be contacted for advice.

SAFETY

Use appropriate personal protective equipment during mixing and application, including suitable gloves and eye protection. Provide adequate ventilation during application and cleaning.

QUALITY STATEMENT

All our products are manufactured to comply with our internal QA/QC program and quality management system to ensure consistency and quality.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use. This Data Sheet version is the latest one. The company may modify it without any prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's head office located in Lahore.

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RECKON CHEMICALS PRIVATE LIMITED
21 CCA, BLOCK B, KHAYABAN-E-AMIN, LAHORE
Toll: +92-42-35452620, +92-42-35230419
Web: www.reckonchemicals.com
Email: Info@reckonchemicals.com

