

CrownFlex™ EVA

Product Description Sheet No. 525

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Easy to Install Preformed Expansion and Isolation Joint System for Vehicular Traffic or Non-Vehicular Uses

Description

CrownFlex™EVA, (Product No. 525) is a preformed, closed cell cross-linked copolymer foam available in plank form or cut in strips. The material, ethylene vinyl acetate, offers a higher level of resilience, elongation, and tear strength than other foam products.

The **CrownFlex EVA** is bonded to the structural substrate vertical inner joint surfaces with an epoxy adhesive to create a chemical and waterproof expansion joint system.

Advantages

- Easy to Size Onsite and Place – Reduces Installation Labor
- Butt Ends are Easily Connected Together to Make Continuous Waterproof Lengths
- Excellent Adhesive Working Time
- Allows Traffic to Resume Immediately
- Can be Installed One Lane at a Time
- Interior or Exterior Use
- May be Installed Down to 20°F Temperature
- May be Installed Underwater
- May be Installed with Fresh Concrete
- Provides Thermal Shock & Impact Protection
- Resistant to De-icing Salts, Chemicals and Petroleum Based Products
- Protects Against Hydrostatic Pressure
- Joint Sizes from 3/8 inch Width to 6 inches and Depth to 18 inches
- Special Sizes on Request

Where to Use

- Bridge Decks
- Ramps
- Pedestrian Walkways and Foot Bridges
- Tunnels Aqueducts, and Viaducts
- Multi Story Parking Structures
- Connection Joints Between PCC/ Asphalt Sidewalk to Curb or Building Wall

Typical Data for CrownFlex EVA

(Material and Curing Conditions at 73°F unless noted, 50% R.H.)

DENSITY (ASTM D3575-91 Suffix W, Method A)

Nominal 3.1 lb/ft³

TENSILE PROPERTIES (ASTM D3575-91, Suffix:T cell/cell)

Tensile Strength 125 psi
Elongation at Break 220 %

COMPRESSIVE STRENGTH (ASTM D3575-91, Suffix:D)

@10%	@25%	@40%	@50%
4 psi	6 psi	10 psi	15 psi

COMPRESSION SET (ASTM D3575-91, Suffix:B)

22 hrs @ 50% 13 % set
73°F, 2 hr recovery

22 hrs @ 50% 9 % set
73°F, 24 hr recovery

TEAR STRENGTH (ASTM D3575-91, Suffix:G cell/cell)

19 lbf/in

RECOMMENDED OPERATING TEMPERATURE RANGE

-95°F min 150°F max

- Balconies, Plazas and Platforms
- Concrete Floors and Slabs
- Tanks & Secondary Containment Areas
- Precast Concrete Structure and Balcony Waterproofing
- Water Treatment Plants and Sewers
- Stadiums and Recreational Parks
- Swimming Pools, Fountains and Waterfalls
- Joints to Absorb Vibrations from Equipment

An Easy to Install Preformed Expansion and Isolation Joint System for Vehicular Traffic or Non-Vehicular Uses

Surface Preparation

All inner joint surfaces must be free of dust, coatings, grease, sealants, waxes and all other contaminants and have all deteriorated concrete removed to a sound and clean surface. Typical removal methods include dust-free abrasive blasting or enlarging joint width by saw cutting. Protect joints from contamination after cleaning and prior to product placement.

Joint Design

Crown Polymers will assist in the correct joint design to assure proper use of the systems. Designs may include epoxy polymer concrete nosing to resist impact damage to the adjacent concrete or asphalt surfaces, or a flexible resin system over the CrownFlex EVA to prevent small diameter wheels from dropping into the joint surface opening. Call Crown Polymers for technical assistance.

Epoxy Adhesive Selection

Surface Condition	Min. Temperature	Product
Moist/Dry	40°F	CrownBond, n.121
Dry	20°F	CrownPro Bond LTC, n.122
Moist	33°F	
Fresh PCC	33°F	CrownBond CCV, n.124
Underwater	40°F	CrownFlex UV, n.126

LIMITED WARRANTY - "Crown Polymers, LLC warrants its products to be free of manufacturing defects, to be of good quality, and that they will meet Crown Polymers current published physical properties when applied in accordance with Crown Polymers written directions and tested in accordance with ACI, ASTM and Crown Polymers Standards. Product proved to be defective will be replaced. **There are no other warranties by Crown Polymers, LLC of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product.** Crown Polymers, LLC shall not be liable for damages of any sort, including remote or consequential damages, resulting from any claimed breach of any warranty, whether expressed or implied, from any other cause whatsoever. Crown Polymers will not be responsible for use of this product in a manner to infringe on any patent held by others."

For the Location of Your Nearest Crown Polymers Representative

CALL NATIONWIDE TOLL-FREE 1-888 / 732-1270



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