

# CrownFlex EVA

Product Description Sheet No. 525



## An 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.

### Epoxy Adhesive Selection

Name	Product Number	Surface Condition	Min. Temperature
CrownBond	121	moist/dry	40°F
CrownPro Bond LTC	122	dry	20°F
		moist	33°F
CrownBond CCV	124	fresh PCC	33°F
CrownFlex UW	126	underwater	40°F

### 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
- 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
- New Construction and Restoration Projects

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### 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 us for technical assistance.

### 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
- Maybe Installed Down to 20°F Temperature
- Maybe Installed Underwater
- Maybe 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

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## Typical Data for CrownFlex EVA Expansion Joint (Material and Curing Conditions at 23°C (73°F) unless noted, 50% R.H.)

PROPERTY	TEST METHOD	UNITS	TYPICAL VALUES
DENSITY (Nominal)	ASTM D3575-91 Suffix W (Method A)	pcf	3.1
COMPRESSIVE STRENGTH	ASTM D3575-91 Suffix: D	psi	
@ 10%			4
@ 25%			6
@ 40%			10
@ 50%			15
COMPRESSION SET	ASTM D3575-91 Suffix B		
22 hrs @ 50% 73°F, 2hr recovery		% set	13
22 hrs @ 50% 73°F, 24hr recovery		% set	9
TENSILE STRENGTH	ASTM D3575-91 Suffix: T (cell/cell)	psi	125
ELONGATION AT BREAK		%%	220
TEAR STRENGTH	ASTM D3575-91 Suffix: G (cell/cell)	lbf/in	19
RECOMMENDED OPERATING TEMERPATURE RANGE	INTERNAL	Deg. F min Deg. F max	-95 +150

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