



WINGED EXPANSION JOINT SEALING SYSTEM

PRODUCT DESCRIPTION

ENDURIT “WJ” Series Winged Expansion Joint Sealing System consists of a thermoplastic prefabricated, compartmentalized, elastomeric, compression type of seal with integral perforated wings. ENDURIT “WK” Series Winged Expansion Joint Sealing System consists of a thermoplastic elastomeric, membrane strip type of seal with integral perforated wings.

Both expansion joint seal types are continuously bonded into a concrete breakout with ENDURIT 900 Elastomeric Concrete header material.

BASIC USES

The ENDURIT “WJ” and “WK” Winged Expansion Joint Sealing Systems are used to seal expansion joints exposed to wheel and/or pedestrian traffic in parking structures, stadiums, plazas, and other types of concrete structures where watertightness is required.

ADVANTAGES

- ☑ The winged seal is bonded into a flexible, elastomeric concrete header that provides a continuous watertight anchoring system.
- ☑ The seal provides a relatively low profile surface exposure minimizing the top opening, which reduces tripping hazards and the collection of debris in the joint.
- ☑ The compartmentalized nature of the “WJ” seal provides secondary protection against leakage if the seal is punctured at the surface. Additionally, in the unlikely event that the top of the seal is punctured, since the seal is made of a thermoplastic rubber, repair is simple.
- ☑ The limited top exposure area of the seal and its unique design, does not allow the seal to rise above the surface of the adjoining concrete, hence making it less susceptible to damage from normal, everyday traffic and abusive snowplowing practices.

LIMITATIONS

Performance of the ENDURIT Winged Expansion Joint Sealing System is closely tied to preparation and installation techniques as well as structural behavior of the expansion joint.

Maintaining close tolerances is essential to the success of the expansion joint system. Correct installation of this system is critical and should be performed only by an authorized applicator of products manufactured by BESSERN Building Products.

INSTALLATION

Preliminary: Blockouts to receive the ENDURIT WJ & WK Winged Expansion Joint Sealing System must be clean, dry, sound, relatively smooth and free of voids, ridges, and sharp projections. Joint openings and blockouts must be properly sized.

LABORATORY TECHNICAL DATA

(Field Properties May Vary)

Property	Test Method	Seal	ENDURIT 900
Tensile Strength	ASTM D412	1010 psi* 1280psi**	1680 psi
Elongation @ break	ASTM D412	450%* 490%**	240% min
Tear Strength	ASTM D624	138* 159**	195 lbs/inch
Brittle Point, °F	ASTM D746	-76* -76**	
Compression Set 168 hrs. @ 73°F	ASTM D395	23%* 26%**	
Compression Set 168 hrs. @ 212°F	ASTM D395	32%* 44%**	
Hardness	Shore A		80± 3
Compress. Strength 5% deflection	ASTM D695		1442 psi min. 96% min.
Resilience, %			
Adhesion Properties Bond to concrete			422 psi min.
Ozone Resistance	ASTM D1149	No Cracks	No Cracks
Water Absorption	ASTM D570		2%
U.V. Resistance		Excellent	Excellent

*67A, **73A

Preparation: The blockouts must be sandblasted just prior to application of the ENDURIT Primer-10. The primer must be applied to all concrete surfaces that will come in contact with the ENDURIT 910 Tack Coat and the ENDURIT 900 Elastomeric Concrete header material.

Installation: Begin by installing the seal into the joint opening. The Primer is then applied to all areas of the breakout. When the primer is dry, the ENDURIT 910 Tack Coat material is gunned under the wings in sufficient amount to rise through the perforations. After the Tack Coat is firmed up, the ENDURIT 900 Elastomeric Concrete Header can then be mixed installed and tooled to a smooth surface.

PRECAUTIONS

To ensure safe installation of the ENDURIT Winged Expansion Joint Sealing Systems, please refer to the

Material Data Safety Sheet for detailed health and safety information prior to use.

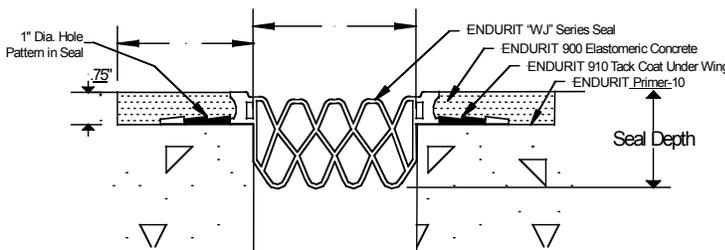
MAINTENANCE

ENDURIT WJ & WK Winged Expansion Joint Sealing Systems may be easily repaired while in service using methods recommended by the manufacturer.

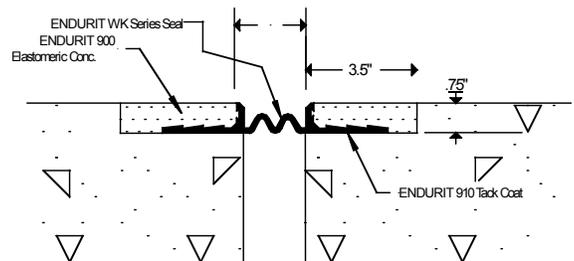
WARRANTY

BESSERN warrants that its products are manufactured free of defects and conform to the technical data listed. Under this warranty we will replace, at no charge, any material proven defective when applied in accordance with our written instructions for applications recommended by us as suitable for subject product. BESSERN shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of the product.

SEAL TYPE	MOVEMENT RANGE	SYSTEM DEPTH	JOINT OPENING SIZE (x)		INSTALLATION WIDTH		
			Minimum (x)	Maximum (x)	Minimum	Mid-Range	Maximum
WJ23	1.875	2.250	0.625	2.500	1.000	1.500	2.250
	47.625	57.150	15.875	63.500	25.400	38.100	57.150
WJ30	2.750	2.500	0.750	3.500	1.500	2.000	3.250
	69.850	63.500	19.050	88.900	38.100	50.800	82.550
WJ40	3.000	2.750	1.500	4.500	2.000	3.000	4.250
	76.200	69.850	38.100	114.300	50.800	76.200	107.950
WJ50	3.500	3.000	2.000	5.500	2.500	4.000	5.250
	88.900	76.200	50.800	139.701	63.500	101.600	133.351
WJ60	3.500	3.000	3.000	6.500	3.500	5.000	6.250
	88.900	76.200	76.200	165.101	88.900	127.001	158.751
WJ70	4.500	3.250	3.000	7.500	3.500	5.000	6.750
	114.300	82.550	76.200	190.501	88.900	127.001	171.451
WK15	2.000	0.750	0.500	2.500	1.000	1.500	2.000
	50.800	19.050	12.700	63.500	25.400	38.100	50.800
WK20	3.250	1.250	0.750	4.000	1.500	2.125	2.750
	82.550	31.750	19.050	101.600	38.100	53.975	69.850
WK80	8.750	1.250	1.250	10.000	1.500	6.000	8.000
	222.251	31.750	31.750	254.001	38.100	152.401	203.201



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