



300 East Cherry Street • North Baltimore, OH 45872
 Phone: 419.257.3561 Fax: 419.257.2200
 www.dsbrown.com

Product Data Sheet Delastic® NSJ Expansion Joint Seal

GENERAL: D.S. Brown's Delastic® Neoprene Sponge Joint (NSJ) seals are preformed and made from closed cell neoprene expanded rubber. NSJ's are designed for small movement expansion joint applications such as: small movement bridge expansion joints, perimeter joints around buildings, vertical wall applications and slab-to-wall conditions, exterior columns, elevator shafts and stair towers. NSJ's are economical and can be used as a secondary joint seal underneath a primary joint system. NSJ's remain in contact with the joint walls through normal compression and tension of their shape and are bonded to the joint with a high quality epoxy adhesive.



FEATURES/ADVANTAGES:

- Can be used in new construction and/or reseal projects with flexibility around varying joint widths
- Extended performance life
- Ease of installation
- Watertight epoxy adhesive
- Can be combined with D.S. Brown PaveSaver™ or elastomeric concrete headers.

DESIGN DATA:

Seal No.	Seal Size		Min Movement		Max Movement		Total Movement		Install width at Midrange	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)
NSJ-100	1	25	7/16	11	1-1/4	32	13/16	21	7/8	22
NSJ-150	1-1/2	38	11/16	17	1-7/8	48	1-13/16	31	1-5/16	33
NSJ-200	2	51	7/8	22	2-1/2	64	1-5/8	42	1-11/16	43
NSJ-250	2-1/2	64	1-1/8	29	3-1/8	79	2	51	2-1/8	54
NSJ-300	3	76	1-3/8	35	3-3/4	91	2-3/8	60	2-9/16	65
NSJ-400	4	102	1-13/16	46	5	127	3-3/16	81	3-7/16	87

PHYSICAL PROPERTIES:

Physical Property	ASTM Test Method	Requirements
Tensile Strength	D-412	125 psi (.86 Mpa) min
Elongation Break	D-412	200% min
Compression Deflection	D-1056	5-9 psi (.03 - .06 Mpa)
Hardness, Shore "00"	D-2240	35-65
Water Absorption, by weight	D-1056	5%
Density	D-1056	12-25 pcf, average
Compression Set, 1/2" compressed 50%, 22 hrs. @ 70°F – 24 hr. recovery.	D-1056	15-25% average

PACKAGING: Shipped in a carton and delivered on a pallet.



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INSTALLATION:

- a.) Form or saw cut the groove/joint opening into the concrete to the recommended depth. Assure that the interfaces, whether concrete or steel, run parallel to each other for the length of the run. Walls should be plumb and should be spaced at a consistent width across the joint. Unsound concrete shall be removed and repaired. Cracks also shall be repaired.
- b.) Clean dirt, stones and standing water from the joint opening. Use a stiff bristled brush and compressed air to remove all dust. Sandblast the vertical walls of the groove.
- c.) Immediately prior to installation, the interface walls should be blown out. Apply the conditioner to the concrete surfaces.
- d.) Uncoil the seal and allow it to relax. Apply seal conditioner, scrubbing vigorously into the ribs of the seal using a stiff nylon brush on the sidewalls. The surface must be abraded and tacky to the touch. This roughened, dull finish is needed for an aggressive bond. Continued scrubbing with a stiff nylon brush and new conditioner will clean the surface. Do this in two separate passes and then rinse the profile with cleaner.
- e.) Apply the adhesive to the joint surfaces and into the ribs of the profile using a margin trowel. The ribs must be completely filled.
- f.) After applying the adhesive, insert the seal into the joint at the required depth. A small amount of adhesive should be visible above the ribbed area. Remove any additional adhesive using organic solvents. Clean up the work area. Allow the adhesive to cure for 24 hours.