

## PRODUCT PHYSICAL PROPERTIES:

- **Product: DD-400 HP System Colorable Seal**
  
- **Product Components:**
  1. Extruded aluminum edge rails, meeting ASTM B-221, Alloy 6061-T6
  2. Stainless steel cover plate, meeting ASTM, A-167, Alloy 304
  3. Santoprene® seal, meeting ASTM, D-2000
  4. Moisture barrier, meeting ASTM, D-2000
  5. Lube/adhesive, meeting ASTM, D-4070
  6. Anchor bolts and hardware are all grade 5 classification
  7. Polycrrete header material optional (see Polycrrete Product Properties)

**Table 1 - Values for the Moisture Barrier**

<b>TABLE 1 – Physical Properties of EPDM-Based Thermo-Rubber Seal Element (colored)</b>		
Property	ASTM Test Method	Requirement
Tensile strength, min.	D412	1000 psi
Elongation at break, min.	D412	410%
Hardness, Type A durometer	D2240 (modified)	67
Compression set	D395 (Method B)	
168h @ 77°F		24%
168h @ 212°F		36%
Tear strength	D624	140 lb/in
Tension set	D412	10%
100% modulus	D412	420 psi
Specific gravity	D792	0.97
Brittle point	D746	<-81°F

**Table 2 - Values for the Lube/Adhesive**

<b>TABLE 2 – Physical Properties of Lubricant/Adhesive</b>		
Property	Test Method Section	Requirement
Solids Content, min %	10.1	60
Homogeneity		Shall be uniform, no lumps or agglomerates, no settlement in container
Shear Ratio at:		
Min:		
At 20,000 to 100,000	cP	1.5
At 100,001 to 200,000	cP	2.0
At 200,001 to 300,000	cP	2.5
Max		4.0
Lubricating life, min. h	10.3	2
Sag	10.4	No sagging
Peel strength test	10.5	Max. Length peeled from concrete within 3 min.
500-g load		None
1000-g load		12mm (1/2 in.)
Shelf life	11.1	For 6 months after manufacture