

NPC – Bidco C-56 Butyl Mastic Sealant

Data Sheet & Installation Instructions

NPC Bidco C-56 Butyl Mastic Joint Sealant is custom engineered to meet the most exacting standards of the precast concrete industry. C-56 remains flexible and forms a permanent bond to a wide variety of substrates including concrete, metals and plastics.

Adhesion and cohesion at the time of installation are excellent and actually improve after the joint has been formed and placed into service. This sealant is designed not to shrink, oxidize or harden and has excellent resistance to temperature extremes, acid and alkaline environments.

C-56 Butyl Mastic Joint Sealant is designed to fully comply with current ASTM Standards and Specifications as required by Federal, State, and Local agencies for use by the precast concrete industry and contractors.

Product Features:

- Available in strip or coil form
- Crush-proof packaging
- Non-stick, non-tear plastic backing

Primary Applications:

- Concrete Pipe
- Box Culverts
- Utility Vaults
- Burial Vaults
- Septic Tanks
- Wet Wells
- Sanitary & Storm Sewer Manholes
- Concrete Wall Panel Systems

NPC Bidco C-56 Meets or Exceeds:

- Federal Specifications SS-S-210 A “Sealing Compound, Preformed Plastic for Pipe Joints”, Type 1, Rope Form
- AASHTO Designation M-198 75 I, Type B, Flexible Plastic Gasket (Bitumin)
- ASTM Designation C-990-91.

Coils				
Width & Length	Cross Section	Pieces Per Ctn.	L.F. Per Per Ctn.	Pallet Size # of Ctns./lbs.
.5" x 21.0'	oval	10	210	45 ctns./24 lbs.
.75" x 14.5'	.66 x .66	10	145	45 ctns./36 lbs.
1.0" x 14.5'	.88 x .88	8	116	45 ctns./50 lbs.
1.25" x 14.5'	.875 x 1.375	5	72.5	45 ctns./49 lbs.
1.5" x 10.0'	1.125 x 1.50	5	50	45 ctns./49 lbs.
2.0" x 10.0'	1.50 x 2.0625	4	40	45 ctns./68 lbs.

Strips				
Width & Length	Cross Section	Pieces Per Ctn.	L.F. Per Per Ctn.	Pallet Size # of Ctns./lbs.
.75" x 30"	.478 x 1.0	50	125	36 ctns./35 lbs.
1.0 x 30"	.58 x 1.6	35	87	36 ctns./37 lbs.
1.25 x 42"	.5 x 2.5	28	98	36 ctns./71 lbs.
1.5 x 42"	.75 x 2.5	20	70	36 ctns./75 lbs.
1.75 x 42"	.75 x 3.25	13	45	36 ctns./61 lbs.
2.0" x 42"	1.0 x 3.25	10	35	36 ctns./65 lbs.

Surface Preparation:

Joint surfaces should be clean and dry. Due to the high adhesive quality of NPC Bidco C-56 Sealant, priming of the joint surface is usually not required. In case of wet or unusually demanding applications, it is recommended that an adhesive primer be applied to the joint surface and allowed to dry before application of the Sealant.

Installation Instructions:

The size (cross-section) of C-56 required for a specific joint is determined by the annular space resulting in a fully sealed joint. The joint must be coupled with sufficient compression to form a proper watertight seal.

C-56 bonds instantly to joint surfaces and to itself. Always butt ends of preformed sealant together. Never overlap!

Leave protective plastic backing on sealant during application and remove when joint is ready for coupling

Technical Specifications			
CHEMICAL COMPOSITION	SPECIFICATION	REQUIREMENT	NPC BIDCO C-56
Content of Hydrocarbon – % by weight	ASTM D4-86	50 - 70	56
Inert Mineral Filler – % by weight	AASHTO T III	30 - 50	44
Volatile Matter – % by weight	ASTM D-6	2.0 max.	below 1
PHYSICAL PROPERTIES			
Specific Gravity – 77° F	ASTM D-71	1.2 - 1.35	1.23
Ductility – 77° F	ASTM D-113	5.0 min.	10.0 +
Softening Point – 77° F	ASTM D-36	320 min.	380
Penetration – 77° F	ASTM D-217	50 - 210	102
Accelerated Aging (mechanical oven for 4 hours @ 212° F)			Maintained 99+% of Solids (Flexibility not affected)
Two Weeks – Total Water Immersion			300% min.
Flow Resistance (1" wide overhead joint exposed to 135° F for 7 days)			No Flow
Storage Life			Indefinite
Application Temperature Range			0 to 125° F
Service Temperature Range			-20 to 200° F
CHEMICAL RESISTANCE (TOTAL IMMERSION - 30 DAYS)			
5% Sulfuric Acid			No Visible Deterioration
5% Hydrochloric Acid			No Visible Deterioration
5% Potassium Hydroxide			No Visible Deterioration
Saturated Hydrogen Sulfide Solution			No Visible Deterioration

