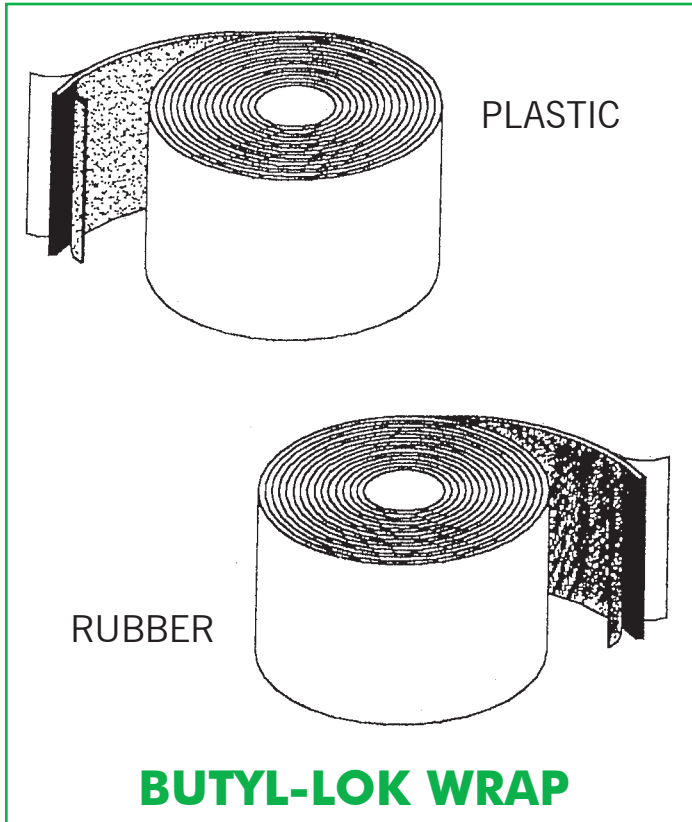


BUTYL SEALANT SYSTEMS

BUTYL-LOK

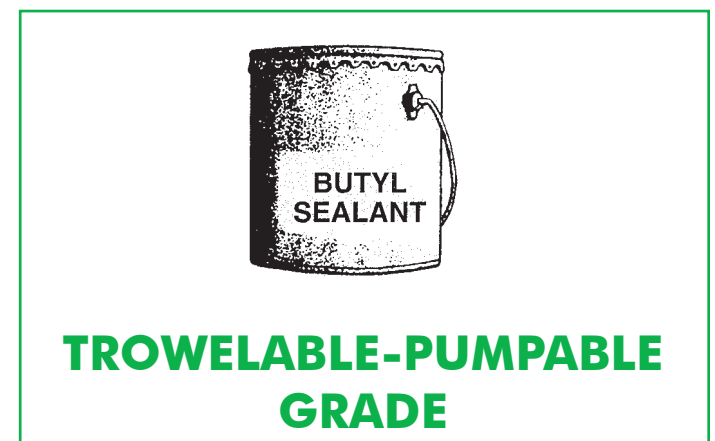
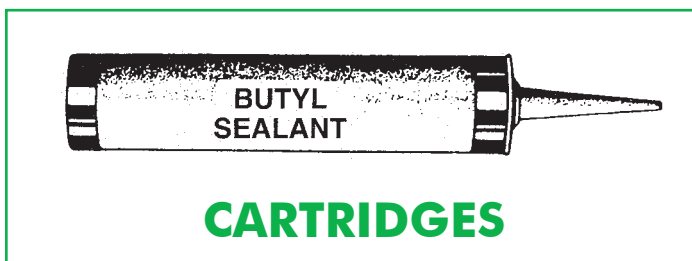
ADHESIVE-PRIMER SYSTEMS

- Water Emulsion Type (non-flammable)
- Solvent Type (flammable)



PREFORMED TAPES

STANDARD SIZE IN STOCK
(Custom sizes available)



● GENERAL PRODUCT DESCRIPTION

BUTYL-LOK sealant systems are custom engineered and manufactured to comply with current standards and specifications required by the Federal, State and local regulatory agencies for use by the precast concrete industry and its contractors.

BUTYL-LOK sealants are supplied in ready-to-apply forms for all weather installations and conditions. Specific applications are:

- SANITARY AND STORM SEWER MANHOLES
- PIPE (Round, Oval, Flatbase, Elliptical and Arch types)
- BOX CULVERTS
- UTILITY VAULTS
- BURIAL VAULTS
- SEPTIC TANKS AND SEWAGE TREATMENT PLANTS
- WET WELLS
- PRECAST CONCRETE WALL PANEL SYSTEMS

● KEY ADVANTAGES

BUTYL-LOK sealants remain permanently flexible and form permanent bonds to a wide variety of substrates including concrete, metals and plastics. These products are designed not to shrink or oxidize and have excellent resistance to environmental temperature extremes, acid and alkaline conditions. Adhesion and cohesion actually improves after joint has been formed and placed in service.

● SURFACE PREPARATION

Joint surfaces should be clean and dry. Due to the high adhesive quality of BUTYL-LOK, priming of the joint surfaces is not normally required. However, should wet or unusual application conditions exist, it is recommended that either BUTYL-LOK Emulsion (non-flam) or Solvent (flammable) Adhesive Primer be coated on the joint surface and allowed to dry a minimum of 10 minutes before application of joint sealant.

● APPLICATION

BUTYL-LOK bonds instantly to joint surfaces and to itself. Always butt ends of preformed sealant together — never overlap. Leave protective release paper on sealant during application and remove only after structure is ready for coupling. The joint should then be coupled with sufficient pressure for proper joint completion. The resulting annular space after structure is properly coupled, determines the volume (cross-section size) of BUTYL-LOK required.

● PRODUCT REFERENCES

BUTYL-LOK meets or exceeds all basic requirements of Federal Specification ***SS-S-21 0-A**
***AASHTO M-198** and **ASTM C-990**.

*NOTE: Meets all aspects with exception of flash point and fire point.

● CHEMICAL COMPOSITION

	TEST METHOD	REQUIREMENTS	BUTYL-LOK
Butyl Rubber-Hydrocarbon (% by wt.)	ASTM D-297	50-70	58%
Inert Mineral Filler (% by wt.)	SS-S-210-A	30-50	42.0%
Volatile Matter (% by wt.)	ASTM D-6	2.0 Max.	1.0%

*NOTE: Contains no asbestos fibers or asphaltics.

● PHYSICAL PROPERTIES

	TEST METHOD	REQUIREMENTS	BUTYL-LOK
Specific Gravity @ 77°F.	ASTM D-71	1.15-1.50	1.25-1.35
Ductility @ 77°F.	ASTM D-113	5.0 Min.	6.0 CM
Cone Penetration @ 77°F.	ASTM D-217	50-100	55-80
Flash Point C.O.C. (°F.)	ASTM D-92	350 Min.	375
Accelerated Aging (Mechanical Oven - 4 hours @ 212°F.)			Maintained 99+% Solids (Flexibility not affected)
UV Resistance (Direct FL Exposure - 365 days)			No Visible Damage
Elongation Initial @ 77°F.			300% Min.
Two Weeks @ 195°F.			300% Min.
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 Temp. Range			0 to 120°F.
Service Temp. Range			-40° to 250°F.

● CHEMICAL RESISTANCE

(Total Immersion 112 Days)	REQUIREMENTS	BUTYL-LOK
Sulfuric Acid	20%	No Visible Damage
Sodium Hydroxide	5%	No Visible Damage
Ammonium Hydroxide	5%	No Visible Damage
Nitric Acid	1%	No Visible Damage
Ferric Chloride	1%	No Visible Damage
Soap	0.1%	No Visible Damage
Detergent (linear alkyl bensyl sulfonate)	0.1%	No Visible Damage

BUTYL-LOK SEALANT SYSTEMS

PREFORMED TAPES

PRODUCT NO.	DIA. EQUIVALENT	CROSS SECTION SIZE	ROLL LENGTH	ROLLS PER CARTON	FEET PER CARTON	CARTON WEIGHT	CARTONS PER PALLET*
FS-3050	1/2"	.45" x .45"	21.75'	12	261	35 lbs.	40
FS-3075	3/4"	.675" x .675"	14.5'	8	116	33 lbs.	40
FS-3100	1"	.89" x .89"	14.5'	6	87	42 lbs.	40
FS-3125	1-1/4"	1.0" x 1.123"	14.5'	5	72.5	55 lbs.	40
FS-3150	1-1/2"	1.187" x 1.5"	10.75'	4	43	47 lbs.	40
FS-3200	2"	1.875" x 1.675"	7.00'	4	28	52 lbs.	40

DURA-PLATE™ BUTYL-LOK SEALANT

MT-320		1/2" x 1-1/2"	14'6"	4	58	28 lbs.	45
MT-329		3/8" x 4-1/2"	14'6"	2	29	30.3 lbs.	40
MT-329-A		5/8" x 3-1/2"	14'6"	2	29	38.2 lbs.	40
MT-329-B		3/4" x 3-1/2"	14'6"	2	29	45.5 lbs.	40

FR 500 DURA-PLATE™ LAP SEALANT 1/10 Gallon Cartridges

CT-0335 LAP SEALANT-LS600 (WHITE) 1/10 Gallon Cartridges – Packaged 10 tubes/case – 120 cases/pallet

*Note: All pallets shrink wrapped – suitable for outside storage.

Custom sizes available upon request – Call us with your special requirements.

BK-0069 TROWELABLE – PUMPABLE GUIDE Available in 5 gallon pails
 R-900 1/10 Gallon CARTRIDGES (BLACK) Packaged 10 tubes/case – 120 cases/pallet
 CN-0189 ADHESIVE-PRIMER: SOLVENT TYPE (flammable) 1 Gallon pails – 6 per case (9% WASH)

HORIZONTAL JOINTS

PIPE SIZE (ID)	RECOMMENDED SIZES		
	1/64" TO 1/4**	5/16" TO 1/2**	9/16" TO 11/16**
12"	1/2"	3/4"	1"
15"	1/2"	3/4"	1"
18"	1/2"	3/4"	1"
21"	1/2"	3/4"	1"
24"	3/4"	1"	1-1/4"
27"	3/4"	1"	1-1/4"
30"	3/4"	1"	1-1/4"
33"	3/4"	1"	1-1/4"
36"	3/4"	1"	1-1/4"
39"	1"	1-1/4"	1-1/4"
42"	1"	1-1/4"	1-1/2"
45"	1"	1-1/4"	1-1/2"
48"	1"	1-1/4"	1-1/2"
54"	1-1/4"	1-1/2"	1-3/4"
60"	1-1/4"	1-1/2"	1-3/4"
66"	1-1/4"	1-1/2"	1-3/4"
72"	1-1/4"	1-1/2"	2"
78"	1-1/4"	1-1/2"	2"
84"	1-1/2"	1-3/4"	2"
90"	1-1/2"	1-3/4"	2"
96"	1-1/2"	1-3/4"	2"
102"	1-1/2"	2"	2"
108"	1-1/2"	2"	2"

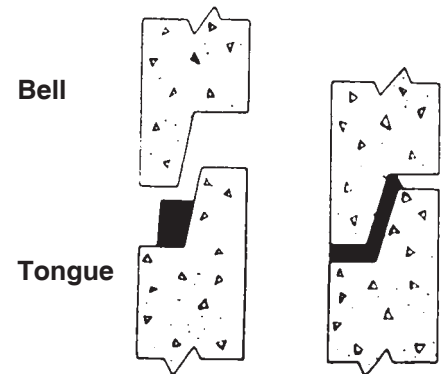
VERTICAL JOINTS

ID OF STRUCTURE	RECOMMENDED SIZES		
	1/64" TO 1/4**	5/16" TO 1/2**	9/16" TO 11/16**
42"	3/4"	1"	1-1/4"
48"	3/4"	1"	1-1/4"
54"	1"	1"	1-1/2"
60"	1"	1-1/2"	1-1/2"
66"	1"	1-1/2"	1-1/2"
72"	1"	1-1/2"	1-1/2"
84"	1"	1-1/2"	1-3/4"
96"	1"	1-1/2"	1-3/4"

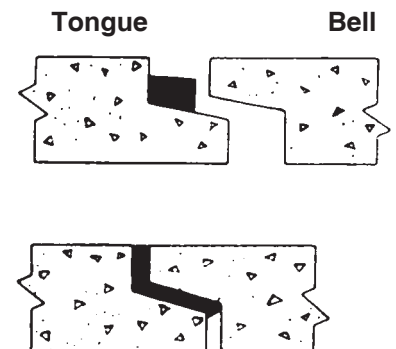
*The annular space of the joint is calculated by subtracting the tongue O.D. from the bell I.D. and dividing by 2.

TYPICAL JOINT CONFIGURATIONS

VERTICAL INSTALLATION



HORIZONTAL INSTALLATION



BUTYL-LOK WRAP

BUTYL-LOK WRAP is an extruded Butyl adhesive tape, designed to provide high strength, watertight seals on properly primed concrete surfaces and joints of any kind. The Butyl compound is soft, tacky and bonded to either a Plastic backing of an E.P.D.M. Rubber backing. Both kinds of tape are wound in rolls on a release liner for easy application.

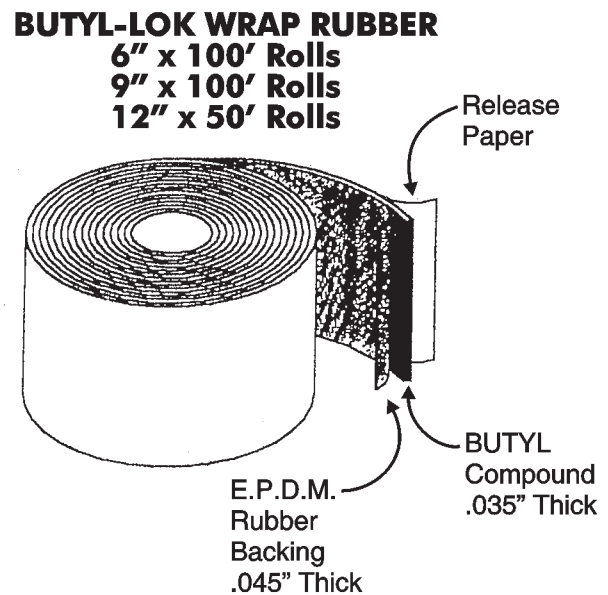
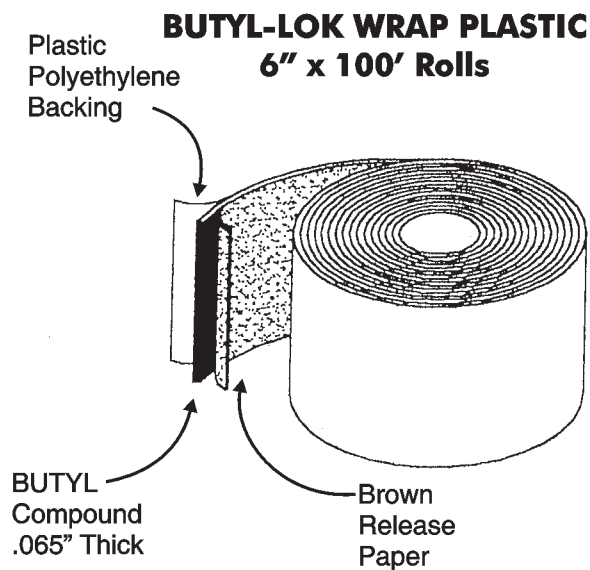
SUGGESTED APPLICATIONS FOR BUTYL-LOK WRAP

- Any external concrete joints:
 - Manhole Joints
 - Arch Pipe Joints
 - Round Pipe Joints
 - Septic Joints
 - Box Culvert Joints
 - Burial Vault Joints
 - Elliptical Pipe Joints
 - Grade Ring Joints
- Concrete Bridge Spans
- New construction, repair or rehabilitation
- Seals vacuum test leaks
- Protective pipe wrap in corrosive conditions

ADVANTAGES OF BUTYL-LOK WRAP

- Prevents or stops infiltration
- Economical sealing solution
- Easy application
- Excellent initial adhesion and strength
- Withstands constant stress at elevated temperatures
- Excellent protection against corrosion
- Readily available

AVAILABLE IN THE FOLLOWING SIZES:



BUTYL-LOK WRAP is designed to be used with No. 4 primer, and should not be stretched during installation.