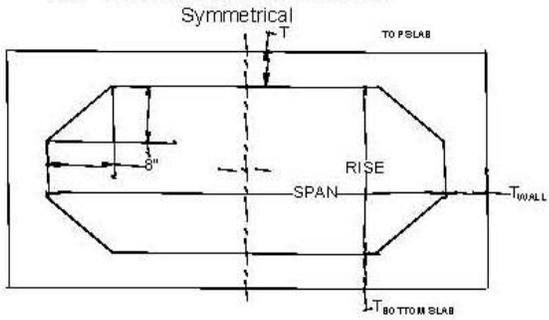
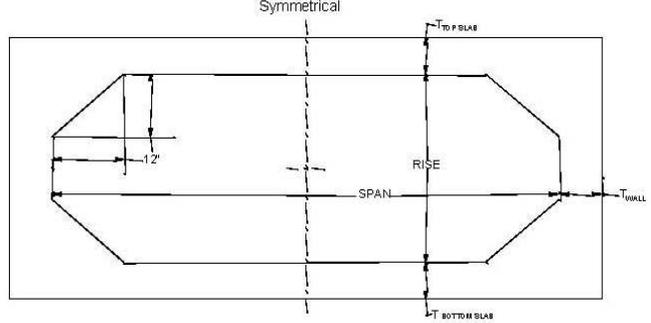


4' x 2' to 8' x 8', 8' Joint with 8" Haunch



6' x 3' to 12' x 12', 8' Joint with 12" Haunch



Dimensions and Approximate Weights of Concrete Box Sections

Greater than 2' fill - Concrete Box Sections (ASTM C1433/C1577)						
Box Inside		Wall Thickness			Waterway Area (sq ft)	Approx Weight (lbs/ft)
Span (ft)	Rise (ft)	Top Slab	Bottom Slab	Wall		
3	2	7	6	6	5.8	1025
3	3	7	6	6	8.5	1175
4	2	5	5	5	7.7	988
4	3	5	5	5	11.7	1112
4	4	5	5	5	15.7	1238
5	2	6	6	6	9.1	1334
5	3	6	6	6	14.5	1483
5	4	6	6	6	19.5	1633
5	5	6	6	6	24.5	1783
6	2	7	7	7	11.1	1738
6	3	7	7	7	17.3	1912
6	4	7	7	7	23.3	2088
6	5	7	7	7	29.3	2262
6	6	7	7	7	35.3	2438
7	2	8	8	8	13.1	2200
7	3	8	8	8	20.1	2566
7	4	8	8	8	27.1	2766
7	5	8	8	8	34.1	2966
7	6	8	8	8	41.1	3166
7	7	8	8	8	48.1	3366
8	2	8	8	8	15.1	2400
8	3	8	8	8	23.1	2600
8	4	8	8	8	31.1	2966
8	5	8	8	8	39.1	3166
8	6	8	8	8	47.1	3366
8	7	8	8	8	55.1	3566
8	8	8	8	8	63.1	3766
9	3	9	9	9	25.0	3338
9	4	9	9	9	34.0	3563
9	5	9	9	9	43.9	3788
9	6	9	9	9	52.9	4012
9	7	9	9	9	61.9	4238
9	8	9	9	9	70.9	4462
9	9	9	9	9	79.9	4688
10	3	10	10	10	28.0	3967
10	4	10	10	10	38.0	4217
10	5	10	10	10	48.6	4466
10	6	10	10	10	58.6	4716
10	7	10	10	10	68.6	4966
10	8	10	10	10	78.6	5216
10	9	10	10	10	88.6	5466
10	10	10	10	10	98.6	5716
11	4	11	11	11	42.3	4929
11	6	11	11	11	64.3	5479
11	8	11	11	11	86.3	6029
11	9	11	11	11	97.0	6304
11	10	11	11	11	108.3	6579
11	11	11	11	11	119.3	6854
12	4	12	12	12	46.0	5700
12	6	12	12	12	70.0	6300
12	7	12	12	12	82.0	6600
12	8	12	12	12	94.0	6900
12	9	12	12	12	106.0	7200
12	10	12	12	12	118.0	7500
12	12	12	12	12	142.0	8100

Less than 2' fill - Concrete Box Sections (ASTM C1433/C1577)						
Box Inside		Wall Thickness			Waterway Area (sq ft)	Approx Weight (lbs/ft)
Span (ft)	Rise (ft)	Top Slab	Bottom Slab	Wall		
3	2	7	6	6	5.8	1025
3	3	7	6	6	8.5	1175
4	2	8	6	5	7.7	1230
4	3	8	6	5	11.7	1354
4	4	8	6	5	15.7	1480
5	2	8	7	6	9.1	1558
5	3	8	7	6	14.5	1708
5	4	8	7	6	19.5	1858
5	5	8	7	6	24.5	2008
6	2	8	7	7	11.1	1827
6	3	8	7	7	17.3	2002
6	4	8	7	7	23.3	2177
6	5	8	7	7	29.3	2352
6	6	8	7	7	35.3	2527
7	2	8	8	8	13.1	2200
7	3	8	8	8	20.1	2566
7	4	8	8	8	27.1	2766
7	5	8	8	8	34.1	2966
7	6	8	8	8	41.1	3166
7	7	8	8	8	48.1	3366
8	2	8	8	8	15.1	2400
8	3	8	8	8	23.1	2600
8	4	8	8	8	31.1	2966
8	5	8	8	8	39.1	3166
8	6	8	8	8	47.1	3366
8	7	8	8	8	55.1	3566
8	8	8	8	8	63.1	3766
9	3	9	9	9	25.0	3338
9	4	9	9	9	34.0	3563
9	5	9	9	9	43.9	3788
9	6	9	9	9	52.9	4012
9	7	9	9	9	61.9	4238
9	8	9	9	9	70.9	4462
9	9	9	9	9	79.9	4688
10	3	10	10	10	28.0	3967
10	4	10	10	10	38.0	4217
10	5	10	10	10	48.6	4466
10	6	10	10	10	58.6	4716
10	7	10	10	10	68.6	4966
10	8	10	10	10	78.6	5216
10	9	10	10	10	88.6	5466
10	10	10	10	10	98.6	5716
11	4	11	11	11	42.3	4929
11	6	11	11	11	64.3	5479
11	8	11	11	11	86.3	6029
11	9	11	11	11	97.0	6304
11	10	11	11	11	108.3	6579
11	11	11	11	11	119.3	6854
12	4	12	12	12	46.0	5700
12	6	12	12	12	70.0	6300
12	7	12	12	12	82.0	6600
12	8	12	12	12	94.0	6900
12	9	12	12	12	106.0	7200
12	10	12	12	12	118.0	7500
12	12	12	12	12	142.0	8100

All dimensions in inches unless otherwise noted and in accordance with ASTM specification C789, C850, C1433 & 1577

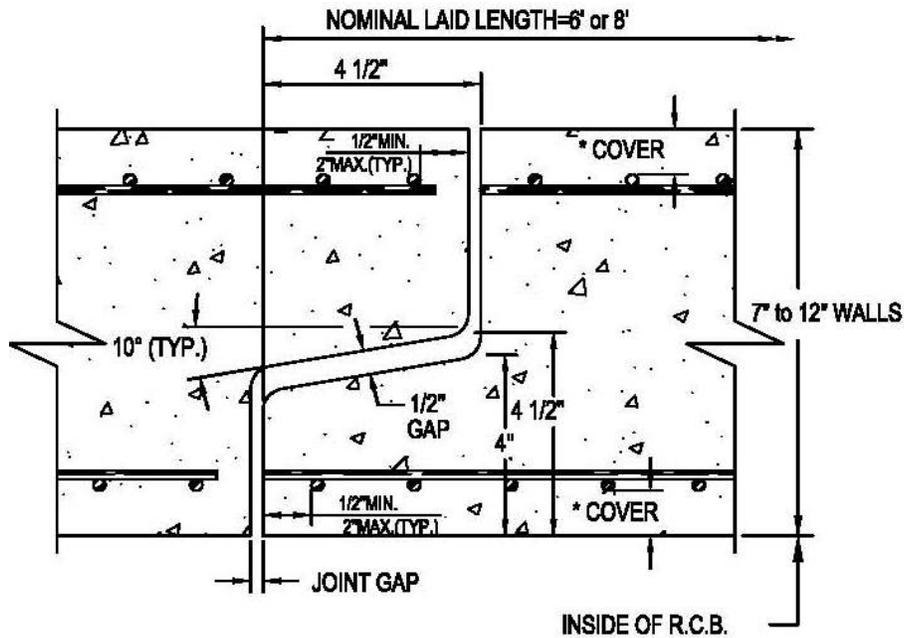


REINFORCED CONCRETE BOX CULVERT WEIGHTS & DIMENSIONS

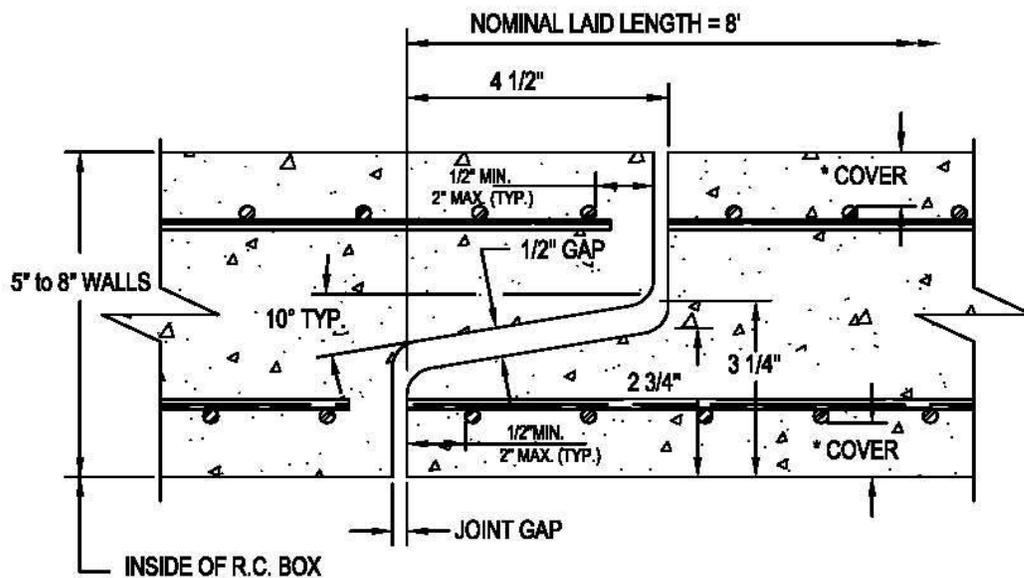
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DR BY: DG
CK BY:

SHEET NUMBER
APP-BOX_DIM



TYPICAL SECTION THRU BOX JOINT [FOR 7" TO 12" WALL THK.]



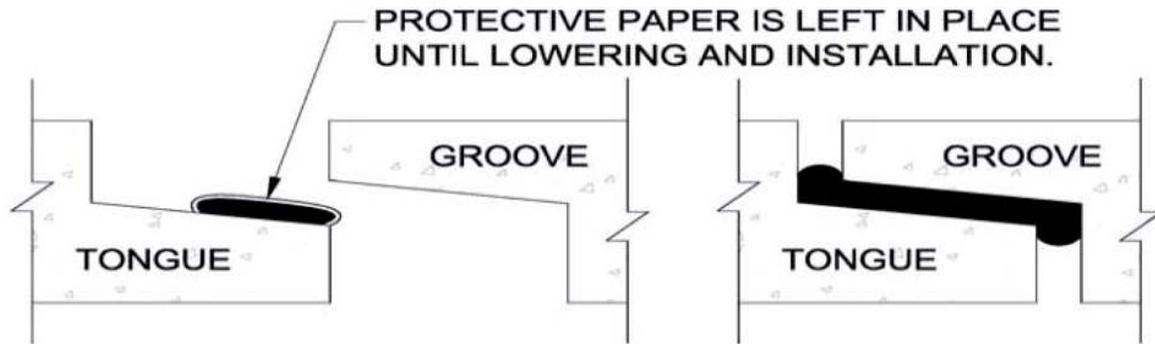
TYPICAL SECTION THRU BOX JOINT [FOR 5" TO 8" WALL THK.]

NOTES:

1. Reinforced Box Culverts made in accordance with ASTM C1577, latest edition.
2. Concrete strength is 5,000 PSI minimum @ 28 days.
3. Precast Box Culvert sections are HL-93 Live Load rated per AASHTO.
- * 4. Concrete cover over steel as per ASTM or Contract specifications.

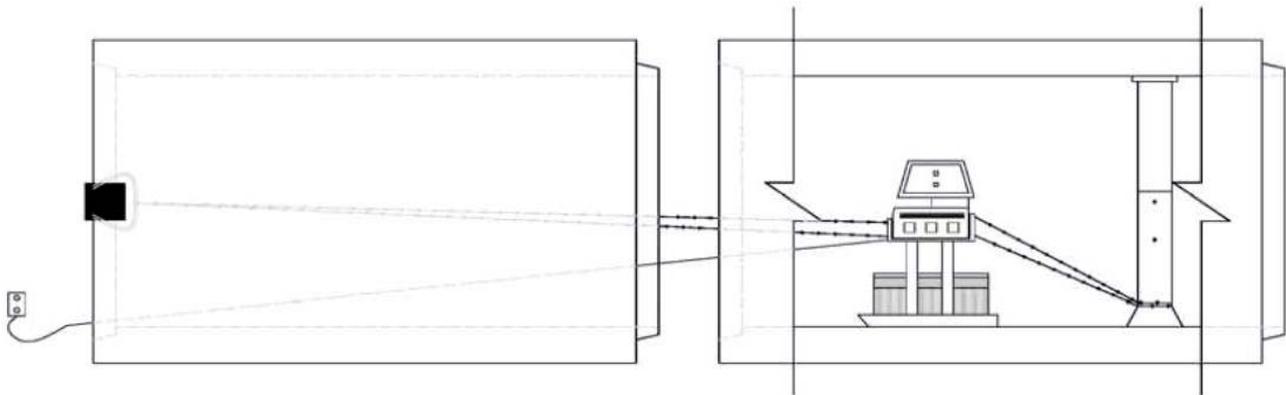
PRECAST BOX CULVERTS

1. Grade trench bottom and bring bedding material to height. Bedding material should be 6" thick minimum, or more depending on existing soils. A box culvert cannot be pushed down to be brought to grade. See project plans and specifications for details.
2. Preformed flexible plastic joint material is installed on the box tongue (top half of box). The joint material is installed in the groove (bottom half of box).



In cold weather, the joint material should be kept warm prior to installation to keep the mastic pliable and compressible.

3. A pipe puller or come-a-long should be used to pull joints home. This is preferable to pushing since it minimizes damage to the box culvert; however, other methods may be acceptable.



4. A small gap can be expected at each joint. For boxes with spans of 10 feet or less, a normal space can be 3/8" to 1" depending on the size of the box. A joint gap of up to 2" can be accepted if sealant is properly placed and compressed.
5. Each box joint should be checked for grade and alignment. We recommend that the grade be checked at the lower haunch and not on the centerline.

Certificate of Compliance

Awarded

Box Culvert & Three Sided Structures

By



American **Concrete Pipe** Association

This Certificate represents that at the time of the audit,

Ameritex Pipe & Products LLC **Seguin, Texas**

was manufacturing precast concrete pipe in accordance with ACPA published guidelines and that sufficient and appropriate procedures and documentation of the manufacturing process were in place as evidence of continued manufacturing practice in accordance with those guidelines.

This Certificate of Compliance is awarded on the basis of successful completion of a compliance audit performed by Wiss, Janney, Elstner Associates, Inc. on,

September 21, 2011

Matt Childs, P.E.
President
American Concrete Pipe Association

Dave Anderson
Chairman
Manufacturing/Quality Committee

AmeriTex Pipe & Products LLC

MATERIAL SAFETY DATA SHEET

Section I - Product and Company Identification

Material Identity (Trade Names): Concrete Pipe and Box	
Manufacturer's Name: AmeriTex Pipe	Emergency Telephone Number: 830.372.2300
Address: 3960 Hwy 90 East Seguin, TX 75155	Telephone Number for Information: 830.372.2300

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Chemical Identity/Common Names)	CAS No.	OSHA PEL	ACGIH TLV	MSHA PEL	%
Quartz (SiO ₂)	10mg/M ³	(as free Crystalline Silica)			
	%SiO ₂ + 2				

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (Air = 1)	N/A	Evaporation (Butyl Acetate = 1)	N/A
Solubility in Water:	Not Soluble		
Appearance and Odor:	Odorless Solid		

Section IV - Fire and Explosion Hazard Data

Flash Point: Not Combustible	Flammable Limits: Not Flammable	LEL: N/A	UEL: N/A
Extinguishing Media: This material is noncombustible. Use extinguishing media appropriate to surrounding fire.			
Unusual Fire and Explosion Hazards: None			

Section V - Reactivity Data

Stability:	Unstable		Conditions to Avoid: None
	Stable	X	
Incompatibility (Materials to Avoid): None			

Hazardous Decomposition or Byproducts: None

Hazardous Polymerization: Not known to occur

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? yes	Skin? no	Ingestion? yes
Health Hazards: Sawing or grinding may result in release of dust particles which may cause minor irritation of the eyes or nose.			
Chronic Effects: Result in lung disease (Silicosis) if exposed to excessive amounts for prolonged periods.			

Section VI - Health Hazard Data (continued)

Carcinogenicity:	NTP no	IARC Monographs no	OSHA Regulated no
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Signs and Symptoms of Exposure: Irritation of the eyes and nose, shortness of breath.

Medical Conditions Generally Aggravated by Exposure: Pre-existing lung disease such as Emphysema or Asthma.

Emergency and First-Aid Procedures:

Eyes: Flush eyes generously with water for 15 minutes. If irritation persists, contact a physician.

Inhalation of Dust: Remove exposed person to fresh air and support breathing as needed. Consult a physician immediately if irritation persists.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: Sweep up and discard.

Waste Disposal Method: Dispose of as common waste.

Precautions to Be Taken in Handling and Storing: None

Precautions: Wear NIOSH approved respirator and tight fitting goggles when sawing or grinding.

Section VIII - Control Measures

Respiratory Protection: NIOSH approved particulate respirator.

Ventilation:	Local Exhaust:	Other:
	Mechanical (General): In confined area.	Special:

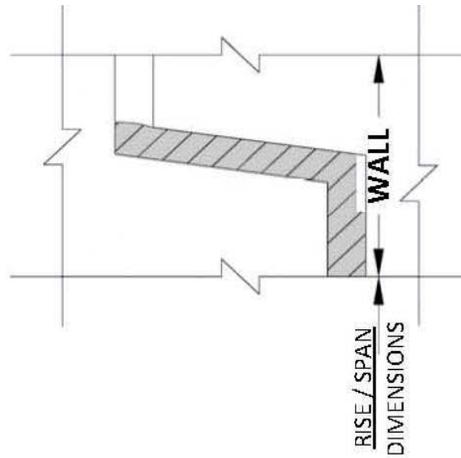
Skin Protection: Eye Protection: Tight fitting safety goggles.

Other Protective Clothing or Equipment: None

Work/Hygienic Practices: N/A

Disclaimer: The information contained in this Material Safety Data Sheet is based on technical data that the company believes to be accurate.

PRECAST BOX CULVERT



MANUFACTURER ESTIMATED QUANTITIES
(SUGGESTED MINIMUM SEALANT SIZE)

Span (Ft.)	Rise (Ft.)	Wall (In.)	Pre-Formed		Mastic	Span (Ft.)	Rise (Ft.)	Wall (In.)	Pre-Formed		Mastic
			Size	Pcs. / Jt.	Gal. / Jt.				Size	Pcs. / Jt.	Gal. / Jt.
3	2	4	1 1/2" x 3'6"	3.1	1.66	9	4	9	1 1/2" x 3'6"	8.2	6.87
3	3	4	1 1/2" x 3'6"	3.6	1.94	9	5	9	1 1/2" x 3'6"	8.7	7.32
4	2	5	1 1/2" x 3'6"	3.8	2.26	9	6	9	1 1/2" x 3'6"	9.3	7.77
4	3	5	1 1/2" x 3'6"	4.4	2.57	9	7	9	1 1/2" x 3'6"	9.9	8.22
4	4	5	1 1/2" x 3'6"	4.9	2.88	9	8	9	1 1/2" x 3'6"	10.5	8.67
5	2	6	1 1/2" x 3'6"	4.5	2.94	9	9	9	1 1/2" x 3'6"	11.0	9.12
5	3	6	1 1/2" x 3'6"	5.0	3.29	10	4	10	1 1/2" x 3'6"	8.8	8.00
5	4	6	1 1/2" x 3'6"	5.6	3.64	10	5	10	1 1/2" x 3'6"	9.4	8.48
5	5	6	1 1/2" x 3'6"	6.2	0.98	10	6	10	1 1/2" x 3'6"	10.0	8.97
6	2	7	1 1/2" x 3'6"	5.1	3.71	10	7	10	1 1/2" x 3'6"	10.6	9.45
6	3	7	1 1/2" x 3'6"	5.7	4.10	10	8	10	1 1/2" x 3'6"	11.1	9.94
6	4	7	1 1/2" x 3'6"	6.3	4.48	10	9	10	1 1/2" x 3'6"	11.7	10.42
6	5	7	1 1/2" x 3'6"	6.8	4.86	10	10	10	1 1/2" x 3'6"	12.3	10.91
6	6	7	1 1/2" x 3'6"	7.4	5.24	11	4	11	1 1/2" x 3'6"	9.5	9.22
7	2	8	1 1/2" x 3'6"	5.8	4.57	11	5	11	1 1/2" x 3'6"	10.1	9.74
7	3	8	1 1/2" x 3'6"	6.4	4.99	11	6	11	1 1/2" x 3'6"	10.6	10.26
7	4	8	1 1/2" x 3'6"	6.9	5.40	11	7	11	1 1/2" x 3'6"	11.2	10.78
7	5	8	1 1/2" x 3'6"	7.5	5.82	11	8	11	1 1/2" x 3'6"	11.8	11.30
7	6	8	1 1/2" x 3'6"	8.1	6.23	11	9	11	1 1/2" x 3'6"	12.4	11.82
7	7	8	1 1/2" x 3'6"	8.6	6.65	11	10	11	1 1/2" x 3'6"	12.9	12.34
8	3	8	1 1/2" x 3'6"	6.9	5.40	11	11	11	1 1/2" x 3'6"	13.5	12.86
8	4	8	1 1/2" x 3'6"	7.5	5.82	12	4	12	1 1/2" x 3'6"	10.2	10.53
8	5	8	1 1/2" x 3'6"	8.1	6.23	12	5	12	1 1/2" x 3'6"	10.7	11.08
8	6	8	1 1/2" x 3'6"	8.6	6.65	12	6	12	1 1/2" x 3'6"	11.3	11.64
8	7	8	1 1/2" x 3'6"	9.2	7.06	12	7	12	1 1/2" x 3'6"	11.9	12.19
8	8	8	1 1/2" x 3'6"	9.8	7.48	12	8	12	1 1/2" x 3'6"	12.5	12.74
						12	9	12	1 1/2" x 3'6"	13.0	13.30
						12	10	12	1 1/2" x 3'6"	13.6	13.85
						12	11	12	1 1/2" x 3'6"	14.2	14.41
						12	12	12	1 1/2" x 3'6"	14.7	14.96

-NO SCALE-
All dimensions subject to allowable specification tolerances



Tongue & Groove Box
Joint Material

SCALE: NTS
DATE: 10/24/2012

DR BY: DG
CK BY:

SHEET NUMBER
APP-BOX_JT_MATL

Evergrip 990 Strips - Product Data Sheet



Description

Evergrip 990 is a concrete joint sealant made with a unique blend of asphalts enriched with high grade polymer. Available in convenient strips, Evergrip 990 is a preformed, ready-to-use, flexible gasket that provides an excellent seal for concrete pipes, culverts, manholes and other precast concrete joints.

Typical Physical Properties

Property	Min	Max
Bitumen, % by wt	50	70
Inert filler content, % by wt.	30	50
Volatile matter, % by wt.		2.0
Specific gravity @ 77F/25C, (g/ml)	1.2-1.35	
Ductility @ 77F/25C, (cm)	5.0	
Softening Point	320F/160C	
flash point, C.O.C.	600F/315C	
Penetration @ 77F/25C, 150 gms, 5 sec. (dmm)	50	120
Adhesion and hydrostatic pressure	No leaks (24 hrs.)	
Sag or flow resistance	No sagging	
Chemical resistance	No visible deterioration	

Storage and Handling

Evergrip 990 should be stored in a dry area protected from the elements. Cartons should not be stacked over six high. Conditions should preclude contamination of the joint sealant by any foreign material such as silt or mud during the installation process. In hot weather, the material tends to soften; dipping sealant strips in cool water will allow easier release of the paper. Conversely, in cool weather, the material stiffens; dipping strips in warm water or storing in a warm area prior to use will aid in paper release.

Application

Concrete surfaces to which the sealant is to be applied must be clean and dry. All mud, dirt, grease, oil, and loose particles should be removed from the surfaces. The release paper should be stripped from only one side of sealant. The outside paper should be left in place to protect the sealant from contamination and stretching. The sealant strips should be attached end to end to the leading edge of the tongue or groove of each pipe joint until a continuous gasket is established around the entire circumference of the pipe joint. The material should be pressed firmly into place through the outside release paper. The outside paper should be removed just prior to jointing the pipe. Contaminating the exposed sealant with any foreign materials should be strictly avoided. Care should be taken not to disturb the gasket placement. Any contaminated sealant should be removed and replaced and any displaced strips should be repositioned prior to jointing the pipes. See pipe manufacturer's instructions for proper pipe jointing procedures. Excess sealant may be either trimmed with a putty knife or rolled to a smooth finish. The trench can be backfilled as soon as the joining process has been completed.

Clean-up

Excess sealant should be scraped off surfaces. Asphalt stains can be removed with non-hazardous, bio-degradable cleaners. Waterless hand cleaner should be used on skin, following the cleaner manufacturer's instructions carefully. Flammable or combustible petroleum based solvents should not be used.

Martin Asphalt Quality

Evergrip 990 meets or exceeds all requirements of ASTM C 990, U.S. Federal Specifications SS-S-210A, Type 1, Rope Form, and AASHTO Designation M-198-10. It is certified to meet or exceed highway department specifications. Through Martin Asphalt, you get **Everything Asphalt**—a full range of products. In addition, you receive technical assistance in selecting the right materials and application. The company's AASHTO Certified Laboratory makes sure the products meet your specifications. And your products are delivered both on spec and on time via Martin's Gulf Coast network of production plants, storage facilities and transportation fleet including ocean-going and inland barges, rail cars and tanker trucks.

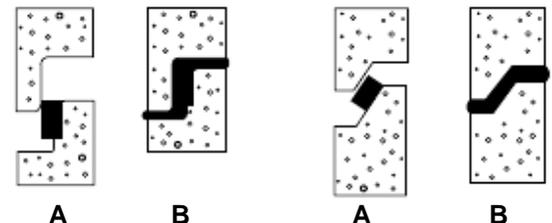
Packaging

English Units

Sealant Size	Pieces/ Carton	Ft/ Carton
3/4" x 2'6"	50	125 ft
1" x 2'6"	35	87.5 ft
1" x 3'6"	35	122.5 ft
1 1/4" x 3'6"	28	98 ft
1 1/2" x 3'6"	20	70 ft
1 3/4" x 3'6"	13	45.5 ft
2" x 3'6"	10	35 ft

Metric Units

Sealant Size		M/ Carton
19mm x 762mm	50	38.1 m
25.4mm x 762mm	35	26.7m
25.4mm x 1067mm	35	37.3m
31.75mm x 1067mm	28	29.9m
38.1mm x 1067mm	20	21.3m
44.45mm x 1067mm	13	13.9m
50.8mm x 1067mm	10	10.7m



A – Sealant Placement
B – Joint After Compression

EVERGRIP 990

MATERIAL SAFETY DATA SHEET



Manufacturer's Name: Martin Asphalt Company	Date: January, 2011
Telephone Number: 800-662-0987	Address: 300 Christy Place
For Emergency Assistance Call: (713) 941-4410	South Houston, TX 77587

NFPA HAZARD IDENTIFICATION	DEGREE OF HAZARD	HAZARD RATINGS
	HEALTH: 1 FIRE: 1 REACTIVITY: 0	0= LEAST 1= SLIGHT 2= MODERATE 3= HIGH 4= EXTREME

SECTION 1 - COMPONENT DATA	
PRODUCT NAME	EVERGRIP 990 POLYMER MODIFIED CONCRETE JOINT SEALANT
CHEMICAL NAME	PETROLEUM ASPHALT (BITUMEN)
CHEMICAL FAMILY	PETROLEUM HYDROCARBON

SECTION 2 - PHYSICAL DATA	
BOILING POINT, °F:	>900
SPECIFIC GRAVITY:	1.20-1.35
VAPOR PRESSURE (mm HG):	*ND
MELTING POINT, °F:	>320
SOLUBILITY IN WATER:	NEGLIGIBLE
VAPOR DENSITY (AIR=1):	*ND
EVAPORATION RATE (N-BUTYL) ACETATE =1):	*ND
PH:	NEUTRAL
APPEARANCE AND ODOR:	BLACK SOLID. ASPHALT ODOR.

HAZARDOUS INGREDIENTS		
COMPONENT	CAS NUMBER	PERCENT
ASPHALT	8052-42-4	55-70

SECTION 3 - FIRE AND EXPLOSION HAZARDS	
FLASH POINT AND METHOD:	>500 °F (COC)
FLAMMABLE LIMITS: % VOLUME IN AIR	LOWER: *ND UPPER: *ND
EXTINGUISHING MEDIA	DRY CHEMICAL OR FOAM PREFERRED. WATER FOG MAY BE USED ON FLAT SURFACES SUCH AS ROADS.
SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS	MATERIAL WILL NOT BURN UNLESS PREHEATED. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.
UNUSUAL FIRE AND EXPLOSION HAZARD	DO NOT HEAT ABOVE FLASH POINT. SULFUR OXIDES AND HYDROGEN SULFIDE, BOTH OF WHICH ARE TOXIC, MAY BE RELEASED UPON COMBUSTION. H2S VAPORS ARE HEAVIER THAN AIR, MAY ACCUMULATE IN LOW AREAS AND TRAVEL ALONG THE GROUND TO A REMOTE IGNITION SOURCE; IF IGNITED WILL FLASH BACK TO ORIGINAL CONTAINER.

*NA=NOT APPLICABLE **ND=NOT DETERMINED



SECTION 4 – REACTIVITY DATA	
STABILITY:	STABLE
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR
CONDITIONS AND MATERIALS TO AVOID	UNDER NORMAL CONDITIONS, PRODUCT IS STABLE.
HAZARDOUS DECOMPOSITION PRODUCTS	THERMAL DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT ON THE COMBUSTION CONDITIONS. A COMPLEX MIXTURE OF AIRBORNE SOLID, LIQUID, PARTICULATES AND GASES WILL EVOLVE WHEN THIS MATERIAL UNDERGOES PYROLYSIS OR COMBUSTION. CARBON MONOXIDE, HYDROGEN SULFIDE AND OTHER UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED UPON COMBUSTION.

SECTION 5 - HEALTH HAZARD DATA					
THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATIONS STANDARD (29 CFR 1910.1200)					
EYE CONTACT	BASED ON ESSENTIALLY SIMILAR PRODUCT TESTING, PRODUCT IS PRESUMED TO BE MINIMALLY IRRITATING TO THE EYES.				
SKIN CONTACT	BASED ON ESSENTIALLY SIMILAR PRODUCT TESTING, PRODUCT IS PRESUMED TO BE MINIMALLY IRRITATING TO THE SKIN.				
INHALATION	VAPORS (GENERATED AT HIGH TEMPERATURES) MAY CAUSE IRRITATION TO NOSE, THROAT, AND RESPIRATORY TRACT.				
SIGNS AND SYMPTOMS OF OVEREXPOSURE	IRRITATION AS NOTED ABOVE.				
AGGRAVATED MEDICAL CONDITIONS	PREEXISTING EYE, SKIN, AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.				
HAZARDOUS INGREDIENT: ASPHALT	CARCINOGENICITY				
NTP LISTED	NO				
IARC LISTED	YES				
OSHA REGULATED	NO				
OCCUPATIONAL EXPOSURE LIMITS:					
	OSHA		ACGIH		
COMPONENT	PEL/TWA	PEL/CEILING	TLV/TWA	TLV/STEL	OTHER
ASPHALT			5 MG/M ³		

SECTION 6 - EMERGENCY AND FIRST AID PROCEDURES	
EYE CONTACT	FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.
SKIN CONTACT	REMOVE CONTAMINATED CLOTHING/SHOES AND WIPE EXCESS FROM SKIN. FOLLOW BY WASHING WITH SOAP AND WATER. USE OF A WATERLESS HAND CLEANER WILL HELP TO REMOVE THE PRODUCT IF NEEDED. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED.
INHALATION	NOT SIGNIFICANT
INGESTION	DO NOT INDUCE VOMITING. IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE QUANTITIES OF PRODUCT ARE INGESTED. HOWEVER, GET MEDICAL ADVICE.

SECTION 7 – PERSONAL HEALTH PROTECTION INFORMATION	
PROTECTIVE CLOTHING	AVOID CONTACT WITH EYES. WEAR SAFETY GLASSES OR GOGGLES, GLOVES, APRON AND OTHER PROTECTIVE CLOTHING AS REQUIRED TO PREVENT CONTACT. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN.

*NA=NOT APPLICABLE **ND=NOT DETERMINED



RESPIRATORY PROTECTION	AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS USE A NIOSH/MSHA APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.
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SECTION 8 – SPILL, LEAK & DISPOSAL PROCEDURES	
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	MAY BURN ALTHOUGH NOT READILY IGNITABLE. WEAR PROTECTIVE CLOTHING AS APPROPRIATE. DIKE AND CONTAIN. DISPOSE OF PROPERLY.
WASTE DISPOSAL METHOD	ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THE MATERIAL, IF SPILLED OR DISCARDED, MAY BE A REGULATED WASTE. REFER TO STATE AND LOCAL REGULATIONS. CAUTION! IF REGULATED SOLVENTS ARE USED TO CLEAN UP SPILLED MATERIAL, THE RESULTING WASTE MIXTURE MAY BE REGULATED. DEPARTMENT OF TRANSPORTATION (DOT) REGULATIONS MAY APPLY FOR TRANSPORTING THIS MATERIAL WHEN SPILLED. WASTE MATERIAL MAY BE LANDFILLED OR INCINERATED AT AN APPROVED FACILITY. MATERIALS SHOULD BE RECYCLED IF POSSIBLE.

SECTION 9 - SPECIAL PRECAUTIONS/ADDITIONAL INFORMATION	
WHEN ASPHALTIC PRODUCTS ARE HEATED, THEY OFTEN GIVE OFF SMALL AMOUNTS OF HYDROGEN SULFIDE. HYDROGEN SULFIDE IS AN EXTREMELY FLAMMABLE, HIGHLY TOXIC GAS. BREATHING HYDROGEN SULFIDE MUST BE AVOIDED. MINIMIZE BREATHING OF VAPORS, FUMES, OR MIST; WHEN POSSIBLE, USE VENTILATION OR WORK UPWIND OF SOURCE OF VAPORS, FUMES AND MIST. LAUNDRY CONTAMINATED CLOTHING BEFORE USING. DISCARD LEATHER GOODS WHEN THEY CANNOT BE DECONTAMINATED. OBSERVE GOOD PERSONAL HYGIENE. WASH THOROUGHLY AFTER WORKING WITH ASPHALT AND BEFORE EATING OR SMOKING.	
D.O.T. CLASSIFICATION:	NOT REGULATED.
D.O.T. PROPER SHIPPING NAME:	POLYMER MODIFIED CONCRETE JOINT SEALANT
OTHER REQUIREMENTS:	NONE
THE COMPONENTS OF THE PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.	

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, MARTIN ASPHALT COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. THIS INFORMATION AND PRODUCT IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING THEM SHALL MAKE THEIR OWN DETERMINATION AS TO THE SUITABILITY OF THE PRODUCT FOR THEIR PARTICULAR PURPOSE AND ON THE CONDITION THAT THEY ASSUME THE RISK OF USE THEREOF.

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