



Argosy International Inc

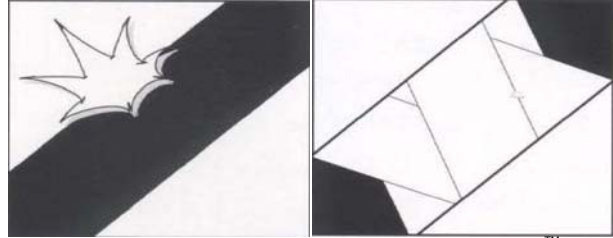
HYDROWRAP™

One Step Instant Pipe Repair

Argosy's Hydrowrap™ is a low-cost composite system for use in repair and reinforcement of existing mechanical systems, structures and piping. It is odorless and non-flammable. Cured Hydrowrap™ is very durable, high strength material, impervious to fuels, most chemicals and solvents. It permanently bonds to a wide variety of surfaces such as metals, composites, concrete, plastics and wood. Certified to ANSI/NSF Standard 61.

APPLICATIONS

- Pipe, pipeline and tank repair and restoration
- Bridge repair and restoration
- Infrastructure member repair and restoration
- Pier, piling & pole repair and restoration
- Corrosion barrier & substrate for coatings



Damaged Pipe

Repaired with Hydrowrap™

TECHNICAL SPECIFICATIONS

Form:	Impregnated Fabric	
Color:	White	
Application Method:	Water-Activated Wet Layup	
Number of Plies Required:	8 minimum	
Reinforcement:	Woven Glass Bi-Axial Fabric	
Dry Fabric Areal Weight (oz/sq. yd.):	11	
Nominal Thickness (mils):	11 +/- 2 mils	
Resin Content:	30 +/- 3%	
Working Time:	30 minutes nominal, after water application	
Cure Cycle 75° F (24°C):	30 minutes nominal, after water application	
Hardness-Cured Laminate:	85 +/- 4 Shore D	
Dielectric Strength:	Non-conductive when cured/16,000 volts	
Heat Resistance (24-Hour Cycle):	400°F max (204°C)	
Maximum Installation Temperature:	200°F (93°C)	
Widths:	2", 3", 4", 6", 10" and 12"	
Lengths:	5 to 150 Lineal Feet	
Toxicity:	Contains no harmful solvents and can be used on water and food service lines.	
Shelf Life:	12 months from date of shipment in its original, unopened/undamaged package. Store in a cool, dry place, but do not refrigerate. Do not allow product to freeze.	

MECHANICAL PROPERTIES

STRUCTURE	METHOD	PSI/TEMP
Tensile Strength 75°F (24°C)	ASTM D 3099	54,000
Tensile Modulus 75°F (24°C)	ASTM D 638	3.0 x 10 ⁶
Flexural Strength 75°F (24°C)	ASTM D 790	26,300
Flexural Modulus 75°F (24°C)	ASTM D 790	1.65 x 10 ⁶
Compression Strength	ASTM D 695	28,500
Interlaminar Shear @ 75°F (24°C)	ASTM D 2344	2,900
Tg (Glass Transition Temperature)	ASTM E 831	280°F (138°C)
Temperature Cycle Test	16 layers cycled from 75°F - 450°F (24°C - 232°F)	No delamination

CHEMICAL IMMERSION TEST – ASTM D 543

CHEMICAL	IMMERSION PERIOD	RESULT
ACETONE	30 Days	Pass
DIESEL FUEL	30 Days	Pass
ETHYL ALCOHOL	30 Days	Pass
GASOLINE	30 Days	Pass
30% HCL	30 Days	Pass – slightly softened
TOLUENE	30 Days	Pass
MEK	30 Days	Pass

NOM. PIPE SIZE	1/2	3/4	1	1-1/2	2	3	4	6	8	10	12	14	16	18	20	22	24
PIPE OD INCHES	.84	1.05	1.32	1.9	2.38	3.5	4.5	6.63	8.63	10.75	12.75	14	16	18	20	22	24
CIRCUMFERENCE	2.64	3.3	4.13	6	7.5	11	14	20.8	28.5	35.5	42	46	55.3	62.2	69	72.6	83
TAPE SIZE	NUMBER OF WRAPS TO PLY (ROUNDED TO THE NEAREST WHOLE PLY)																
2 in. x 3'	14	11	9	65	3												
2 in. x 5'	23	18	15	10	8	5	4	3									
3 in. x 10'				20	16	10	8	6									
3 in. x 30'					48	30	24	18	13	10	9	8	7				
4 in. x 15'					24	15	12	9	7	5							
4 in. x 30'					48	30	24	18	13	10	9	8	7				
4 in. x 50'						40	30	21	17	14	13	11	10	9	8	7	

Red italicized type indicates recommended application. (Minimum 8 plies required)

Note: Areas not filled in can be calculated by dividing the tape LENGTH by the CIRCUMFERENCE of the appropriate diameter pipe.

PART NUMBER	SIZES	FOR MAX PIPE DIAMETER OF
HW-0205	2" x 5' (5.1cm x 1.5mtrs)	1" Nominal (2.54cm)
HW-0212	2" x 12' (5.1cm x 3.65mtrs)	2" Nominal (5.08cm)
HW-0310	3" x 10' (7.6cm x 3.04mtrs)	3.5" Nominal (8.89cm)
HW-0330	3" x 30' (7.6cm x 9.14mtrs)	12" Nominal (30.48cm)
HW-0415	4" x 15' (10.2cm x 4.57mtrs)	6" Nominal (15.24cm)
HW-0430	4" x 30' (10.2cm x 9.14mtrs)	12" Nominal (30.48cm)
HW-0450	4" x 50' (10.2cm x 15.24mtrs)	20" Nominal (50.8cm)
HW-0615	6" x 15' (15.2cm x 4.57mtrs)	9" Nominal (22.86cm)
HW-0630	6" x 30' (15.2cm x 9.14mtrs)	18" Nominal (45.72cm)
HW-0660	6" x 60' (15.2cm x 18.29mtrs)	36" Nominal (91.44cm)
HW-0690	6" x 90' (15.2cm x 27.43mtrs)	45" Nominal (114.3cm)
HW-1030	10" x 30' (24.4cm x 9.14mtrs)	30" Nominal (76.2cm)
HW-1060	10" x 60' (24.4cm x 18.29mtrs)	60" Nominal (152.4cm)
HW-1090	10" x 90' (24.4cm x 27.43mtrs)	90" Nominal (228.6cm)
HW-10120	10" x 120' (24.4cm x 36.58mtrs)	120" Nominal (304.8cm)
HW-10150	10" x 150' (24.4cm x 45.72mtrs)	150" Nominal (381.0cm)

Additional sizes available by special order. Please contact your **Argosy Representative** for special applications.

IMPORTANT NOTICE: Argosy makes no warranties, expressed or implied. User is responsible for determining whether this product is fit for a particular purpose and suitable for user's method of application. Liability for any incidental or consequential damage or loss is specifically excluded at all times.

For Additional Information

- Contact: sales@argosyinternational.com
- For locations: <http://www.argosyinternational.com/worldwidelocations.htm>

