Bande A C-IVIR



PREVENTIVE REINFORCING

- PRESSURE RESISTANCE REINFORCING -
 - MECHANICAL INTEGRITY -
 - ANTICORROSION -



ANTICORROSION - MECHANICAL REINFORCEMENT

TECHNICAL DATA

TENSILE STRENGTH	ASTM D3039-17	258 MPa
COMPRESSION STRENGTH	ASTM D695-10	133 MPa
TENSILE MODULUS	ASTM D790-17	6.14 GPa
LAP SHEAR STRENGTH	ASTM D5868-01	2.36 MPa
SHORE HARDNESS	ASTM D2240-15	76 D
CHARPY IMPACT STRENGTH	ISO 179-1	29 kJ/m ²
COEFF. THERMAL EXPANSION	ASTM E831-14	14.8 µm / C
GLASS TRANSITION TEMP.	ASTM D5868	96°C
SERVICE TEMPERATURE	TGA TEST	300°C
SALT SPRAY (FOG) TEST	ASTM B117-16	240 H - Rio

Code: 1005L SIZE: W. 10 cm X L. 5 M X T. 0.8 mm - Color: BLACK Code: 1005XL SIZE: W. 15 cm X L.10 M X T. 0.8 mm - Color: BLACK

Bande AC-MR IS NEWLY DEVELOPED ANTICORROSION TAPE.

THE ADVANCED POLYPROPYLENE RESIN ON THE FIBERGLASS SUBSTRATE

INCREASE THE MATERIAL PROPERTY AND ADESIVE STRENGHT AS MUCH AS THE

SHIELDING EFFECT IS MAXIMIZED TO PROTECT METAL PIPE FROM AIR & WATER

WITHOUT FURTHER ANY RUST-INHIBITOR.

WORKS ON WET OR CORRODED PIPES, EVEN UNDER WATER
ACTIVATED BY WATER IT CURES TO PRODUCE A TOUGH CHEMICAL RESISTANT
WRAP AROUND PIPE

HIGH-TEMPERATURE COMPOSITE WRAP

EXCELLENT IMPACT AND CRACK PROPAGATION RESISTENCE
HIGH DIELECTRIC STRENGTH
EXCELLENT IMPERMEABILITY TO THE WATER
GREAT RESISTANCE TO THE CHEMICAL AGENTS
EXCELLENT RESISTANCE TO CATHODIC DISBONDEMENT
NON-TOXIC, NO VOCS, NO DETERGENT SUBSTANCE

FOR CHEMICAL COMPATIBILITY SEE OUR WEBSITE: WWW.VOVANNSCO.COM

Bande AC-MR XL Bande AC-MR L











DIRECTION FOR USE

SUITABLE ON THE WET OR IMMERGED SURFACES

SMALL LEAKAGE (FLOW) ALLOWED AT THE MOMENT OF IMPLEMENTATION

REMOVE ALL LOOSE RUST, PAINT WITH A WIRE BRUSH (ISO St2)

USING WET GLOWES, REMOVE BANDAGE FROM THE FOIL POUCH.

IMMERSE IN TEMPERATE WATER FOR 20 - 30 seconds.

WRAP Bande AC-MR ONTO PIPE IN A SPIRAL PATTERN MAKING A 50% OVERLAP.

WHEN WRAPPING, APPLY TENSION AND PRESS THE WRAP ONTO SURFACE.

WET THE GLOVES IN WATER.

SQUEEZE AND MOLD TAPE IN THE DIRECTION OF THE WRAP UNTIL TACKY TO TOUCH (2 min.)

WORKING TIME: 5 min. - SET TIME IN 30 - 45 min. - FULL CURE TIME IN 24 H

CHEMICALLY INERT AND NONFLAMMABLE - THERMALLY STABLE UP TO 300°C

Bande AC-MR

PREVENTIVE REINFORCEMENT FOR PIPE WALL-THICKNESS

PIPE DEFECT - appearing inside or outside the line.

SMALL LEAKAGE (CONTINUOUS FLOW) allowed at the moment of implementation of **Bande AC-MR**Defect which can possibly grow into a through-wall crack, hole during the theoretical life of protection.

1 SPIRAL LAYER WITH A 50% OVERLAP IS EQUIVALENT TO 1.6 mm THICKNESS

ABACUS - COEFFICIENT OF SAFETY 2 - LENGTH OF PROTECTION : 1mL

NB = NUMBER OF Bandes AC-MR L - NP = NUMBER OF LAYERS

Ø / Bar	4 Bar	6 Bar	8 Bar	10Bar	12 Bar	14Bar	16 Bar
DN 50 - 2"	NB 1	NB 1	NB 1	NB 1	NB 1	NB 1	NB 1
	NP 1	NP 1	NP 1	NP	NP 2	NP 2	NP 2
DN 80 - 3"	NB 1	NB 1	NB 1	NB 1	NB 1	NB 1	NB 1
DN 00 - 3	NP 1	NP 1	NP 1	NP 1	NP 1	NP 1	NP 1
DN 100 - 4"	NB 1	NB 1	NB 1	NB 1	NB 1	NB 1	NB 1
	NP 1	NP 1	NP 1	NP 1	NP 1	NP 1	NP 1
DN 150 - 6"	NB 1	NB 1	NB 1	NB 1	NB 1	NB 2	NB 2
	NP 1	NP 1	NP 1	NP 1	NP 1	NP 2	NP 2
DN 200 - 8"	NB 3	NB 3	NB 3	NB 3	NB 3	NB 6	NB 6
	NP 1	NP 1	NP 1	NP 1	NP 1	NP 2	NP 2
DN 250 - 10"	NB 4	NB 4	NB 4	NB 4	NB 7	NB 7	NB 7
	NP 1	NP 1	NP 1	NP 1	NP 2	NP 2	NP 2
DN 300 - 12"	NB 4	NB 4	NB 4	NB 8	NB 8	NB 8	NB 8
	NP 1	NP 1	NP 1	NP 2	NP 2	NP 2	NP 2

The use of the Bande AC-MR XL is recommended for diameters greater than DN 300 - 12"

DN 350 - 14"	NB 1	NB 1	NB 1	NB 3	NB 3	NB 3	NB 3
	NP 1	NP 1	NP 1	NP 2	NP 2	NP 2	NP 2
DN 400 - 16"	NB 2	NB 2	NB 3	NB 3	NB 3	NB 3	NB 5
	NP 1	NP 1	NP 2	NP 2	NP 2	NP 2	NP 3
DN 450 - 18"	NB 2	NB 2	NB 4	NB 4	NB 4	NB 6	NB 6
	NP 1	NP 1	NP 2	NP 2	NP 2	NP 3	NP 3
DN 500 - 20"	NB 2	NB 4	NB 4	NB 4	NB 7	NB 7	NB 7
	NP 1	NP 2	NP 2	NP 2	NP 3	NP 3	NP 3
DN 550 - 22"	NB 2	NB 5	NB 5	NB 5	NB 7	NB 7	NB 9
	NP 1	NP 2	NP 2	NP 2	NP 3	NP 3	NP 4
DN 600 - 24"	NB 3	NB 5	NB 5	NB 8	NB 8	NB 8	NB 10
	NP 1	NP 2	NP 2	NP 3	NP 3	NP 3	NP 4

YOVANN'S CO. HAS DEVELOPED ITS OWN SOFTWARE FOR SIZING OF COMPOSITE MATERIAL. STRENGTHENING THE TYPE B DEFECTS: DEFECT CROSSING THE WALL OR APPEARING INSIDE THE SUBSTRATE WHEN THE REMAINING WALL THICKNESS AT END OF LIFE IS LESS THAN 1mm

Bande AC-MR by its manufacture and composition meets the requirements of the standards: ISO 24.817 / ASME PCC-2



HYDRAULIC PRESSURE TEST Bande AC-MR®

FEBRUARY 2016 - ON SITE Total PN

SECTION Ø DN 300 - B16 ISO-PN50 WATER PRESSURE TESTS AT ROOM TEMPERATURE

HOLE Ø 11 mm - 1 LAYER OF Bande AC-MR (10cm x 500cm) code: 1005L

FACH LAP HAD A RECOVERY OF 50% ON THE PREVIOUS













RESULT

1. after 30 minutes of drying - 5 bar without leaking, oozing when pressurizing.

2. after 24 hours of drying - NO LEAKAGE AFTER 24 HOURS ON LEVEL OF 10 BAR

CONCLUSIONS

Performed tests confirm the following properties: Good waterproofing (localized protection or ground crossing). Additional mechanical resistance (line reinforcement). Stopping external corrosion, particularly in the case of buried pipes. Possible use in a damp dig or piping. Allows to confirm the recommendations of the abacus and the spreadsheet for \leq DN300 cases and \leq 10 bar pressure.

Bande AC-MR is used by:























UNDER PRESSURE REINFORCING







WASTE WATER LINE

Ø DN 600 - 24"

Pressure 1 bar

REPAIR PERFORMED UNDER PRESSURE

COMPLETE SEAL AFTER 48h

IMPLEMENTATION ON BROKEN PIPE

CONTINUOUS FLOW OF WATER + VAPOR





PREVENTIVE REINFORCING

FUEL STORAGE TANK - Ø 10 M - H. 6 M - GRAVITY PRESSURE









DEBALLASTING LINE - Ø 16" - PS 2 bars



PROTECTION OF A PARTIALLY BURIED SEWER VENT







LINE Ø 2" - Fluid: MEC - WALL THICKNESS LOSS (0.8 mm)







FLANGES PROTECTION - Ø 24" - JET FUEL - SP 5 RAR





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