

# Bitutape 120 PVC

## Anti corrosive pipe wrapping tape

High performance anti-corrosive pipe wrapping tape for buried pipelines and pipe joints.

### CHARACTERISTICS

- ▶ Easy to apply
- ▶ Excellent adhesion
- ▶ High strength
- ▶ Flexibility
- ▶ Resistance to Acid & Alkali
- ▶ Moderate impact resistance



adhesion



impact resistant



Chemical resistant

### DESCRIPTION

Bitutape 120 PVC is a high performance anti-corrosive pipe wrapping tape designed for use on buried pipeline, pipe joints, fittings and tie bars where impact or stress is low to moderate.

### APPLICATION INSTRUCTIONS

#### Surface preparation

Remove any dirt, oil, grease, rust by suitable methods. Remove any metal burrs or weld spatter. The minimum requirement for surface preparation of pipe/steel surface is by mechanical/power wire brushing to remove any rust scales. Grit blasting can also be done in heavily contaminated areas.

#### Priming

Bitutape Primer\* (solvent based bitumen primer) shall be used for priming the steel surface prior to the application of the wrapping tape. Stir the contents of the primer for 1-2 minutes to remove any sediment. Apply the primer at the rate of 4-6m<sup>2</sup>/L with a brush or roller evenly to ensure complete sealing of all small undulations and imperfections, particularly around weld beats. Reseal the containers when not in use.

#### Wrapping

Application instructions are for guideline only and are subjected to alterations for specific project requirements. Wrapping should not commence until the primed surface has become touch dry. Apply strips of tape 100mm wide along the weld beads and press firmly. Peel back 150 to 300 mm of the release film and apply the tape, adhesive



side, to the pipe. The angle of the tape must be such as to produce the specified overlap. Apply only sufficient tension to ensure good conformation avoiding air pockets and bridging. Ensure end lap area of at least 150 mm when splicing the tapes. Backfill with care. Use of an Bitustick R protection membrane is recommended to prevent any damage from backfilling. Avoid use of rocky or agglomerated backfill.

### GENERAL

Surface preparation, priming or wrapping should not take place when the substrate is wet. Do not carry out work when the surface temperature is less than 5°C. All sources of ignition must be extinguished or removed before carrying out priming operation. Adequate ventilation must also be ensured. Store the tapes at temperatures not exceeding 30°C and avoid excessive load stacking. During the wrapping application it is important to maintain an even tension whilst controlling the overlap to prevent air entrapment, which could lead to corrosion at a later stage. The tapes are best applied by machine, either hand powered for small runs or mechanically propelled for longer runs. Bitutape 120 PVC range of tapes is normally supplied in 10 m lengths. For machine wrapping these lengths can be increased based on special requests, to suit the project and reduce the number of roll changes.

## STORAGE & SHELF LIFE

Bitutape 120 PVC rolls should be stored under cover, out of direct sunlight and protect from extreme temperatures. Storage area should be cool, dry, well – ventilated and regularly monitored for temperature and major sources of heat. Shelf life is up to 12 month when stored as per recommended storage conditions.

## HEALTH & SAFETY

As with all bitumen products caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the product be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

## SUPPLY

Bitutape 120 PVC		10m x 50mm, wt 0.6kg#
		10m x 100mm, wt 1.2kg#
		10m x 150mm, wt 1.8kg#
		10m x 225mm, wt 2.7kg#
Bitutape Primer		20L pail
Bitustick R	1.6mm	1 m x 10m wt 16kg#
		1 m x 20m wt 32kg#
	2mm	1 m x 10m wt 21kg#
Bitutape Putty-K		20kg pail

#Approximate weights

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

## TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARD
Backing color	Black/Blue	-
Backing type	PVC	-
Backing thickness, [microns]	380	ASTM D 1000
Compound thickness, [mm]	0.7-0.85	ASTM D 1000
Total thickness, [mm]	1.1-1.2	ASTM D 1000
Tensile strength [film], [N/mm <sup>2</sup> ]	>12	ASTM D 638
Elongation [film], [%]	>270	BS 2782
Tear resistance [film], [N]	>30	ASTM D 1004
Adhesion to primed steel, [N/mm]	>2.75	ASTM D 1000
Adhesion to self, [N/mm]	>2.75	ASTM D 1000
Impact resistance, [N.m]	>12	DIN 30672
Di electric strength, [KV]	>25	BS 2782
Insulation resistance, [giga ohms/m <sup>2</sup> ]	3.2	ASTM D 257
Cathodic disbondment resistance, [mm]	<10	ASTM G 8
Water vapor transmission, [g/m <sup>2</sup> /24hrs]	< 0.4	ASTM E 96
Water absorption [film], [%]	<0.2	ASTM D 570
Resistance to bacterial attack	Excellent	ASTM G 21
Application temp, [°C]	5 to 55	-
Service temp, [°C]	-10 to 75	-

All values given are subject to 5-10% tolerance

