

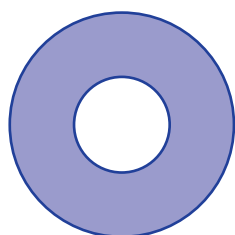
Product: **51 Vinyl Tape**

Product group: **Anti-Corrosion Materials**

## General description

Nitto's vinyl tape 51 is designed for the corrosion protection of buried objects. Its flexibility throughout a wide range of temperature conditions allows easy manual application to pipes, pipe weldings, joints and fittings.

## Construction



- Butyl rubber based self-bonding layer  
- Durable vinyl backing layer

## Characteristics

The butyl-rubber based layer forms a perfect air and moisture tight seal around pipes. Maximum corrosion protection is guaranteed if Nitto 51 is used in conjunction with one of the following layers: primer as undercoat  
Nitto 12FB for contoured surfaces  
Nitto 57 GO/c for irregular shapes

The product can be applied on all kinds of surfaces: steel, galvanised steel, stainless steel, copper, glass, plastic, rubber, etc.

## Application

Nitto 51, in combination with Nitto 57GO/c, is commonly used as a component of the Nitto Tele-Cold-Seal joint-closure system for telecommunication cables. For the protection of pipework against corrosion, including joints and elbows under severe environmental conditions, above ground and below (eg. mines, chemical plants). It is widely used in combination with a primer or Nitto 12FB.

Application temperature: -25 °C to +60 °C  
Service temperature: -45 °C to +60 °C

## Features

- high performance vinyl tape
- perfect air and moisture tight seal
- maximum corrosion protection
- can be applied on all kinds of surfaces
- high impact resistance
- weather resistant

## Properties

		Test method
Backing thickness	0.27 mm	ASTM D 1000
Adhesive thickness	0.13 mm	ASTM D 1000
Total thickness	0.4 mm	ASTM D 1000
Tensile strength	4.5 kgf/10 mm	
Elongation	250%	ASTM D 1000
Adhesion to stainless steel		ASTM D 1000
Initial	250 gf/10 mm	
After 4 hrs, 40 °C water immersion	300 gf/10 mm	
Insulation resistance	10000 MOhm	ASTM D 257
Dielectric strength	13 kV	ASTM D 1000
Change of pH	-0.5	
Vapour transmission	2 g/m <sup>2</sup> /24 hrs	ASTM E 96

## Availability

51BK				
Rollsize	Core diameter	Rolls / carton	Rolls / layer	Rolls / pallet
25mm x 10m	31 mm	160	960	3840
38mm x 10m	31 mm	100	600	2400
50mm x 10m	31 mm	80	480	1920
75mm x 10m	31 mm	40	240	960
100mm x 10m	31 mm	40	240	960
51 GY				
Rollsize	Core diameter	Rolls / carton	Rolls / layer	Rolls / pallet
25mm x 30.5m	76 mm	40	240	960
38mm x 30.5m	76 mm	40	240	780
50mm x 30.5m	76 mm	20	120	480
75mm x 30.5m	76 mm	20	120	360

\* Other sizes are available on request.

## Application guidelines

- Surface preparation: remove rust, dirt, etc. by wirebrush or sandpaper, remove, dust, oil or grease by use of cleaning solvent and remove moisture with dry cloth.
- Apply a primer, Nitto 57 GO/c with 20 mm overlap or Nitto 12FB with 5 mm overlap.
- Wrap around the corrosion protective tape Nitto 51 with 50% overlap.

If you require additional information on technical properties and application as well as product sampling or testing, please contact your local Nitto Europe sales office.

### General conditions of use and precautions:

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage and the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

### Packaging, transport and storage:

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

### Liability:

Except for its wilful misconduct, Nitto Europe's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits. The above limitations of liability shall equally apply if Nitto Europe has assisted in any manner with the selection, treatment or application of the product.

### Product information:

This datasheet provides a general description of the product properties and application scope. Full technical details in connection with this product are presented in the customer product specification, which is available upon request.

Please be advised that the information reflected in this datasheet is subject to change and the product described herein may be modified or discontinued without notice.

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This datasheet replaces all previous versions.

Nitto Europe NV has obtained following certificates:

- ISO 9001
  - ISO 14001
  - ISO/TS 16949
- Please check our website for applicable scope



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