

FiberTec HDD Coating System Bringing Unparalleled Toughness to HDD Coating



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- 2. Inspection Test Plan (ITP)
- 3. Coating Application Checklist
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1. The FiberTec Pipe Protection System for HDD Pipelines

The FiberTec mechanical protection system for HDD Pipelines consists of:

- Pre-cut FiberTec 1.0m width x pipe circumference + corresponding overlap as per table below, packed and sealed.
- FiberTec Tension Tape (144mm x 100m Roll)

KEY NOTES

FiberTec application should commence at the rear of the string so the overlap weatherboard effect ripples to the rear.

It is a FiberTec recommendation that the 1st 10% of the pipe string be double coated as this initial section will endure the most wear and tear.

Where FiberTec overlaps on to itself it must be a **wet-on-wet** joint. E.g., the topmost film must be removed before joining layers of FiberTec. Overlaps should be staggered to avoid overlap upon overlap.

Unless specified otherwise all overlaps on FiberTec to be as follows:

Pipe Size	Corresponding Linear/Radial Overlap
DN100 (4") and below	50mm
DN150 (6")	70mm
DN200 (8") and DN250 (10")	80mm
DN300 (12") and above	100mm

STORAGE CRITERIA

Keep below 25°C if stored for less than 2 weeks. Keep below 15°C if stored for more than 2 weeks.

QUALITY OF APPLICATION

Make use of the FiberTec Application ITP and FiberTec Application Coating Checklist documents.

2. Pipe Surface Preparation

Surface to be clean and free of any loose materials, such as sand, dust, grease, oil or any other deleterious material.

All sharp edges/protrusions to be removed.

Once cleaned the parent coating should be holiday tested and repaired as required.

2.1 Shaded Application

Do not expose FiberTec to UV during handling and application, keep shaded.

2.2 Keep Parent Coating Dry

If parent, coating is damp / wet, dry surface with rags to remove moisture.

If moisture is quickly reforming, warm the substrate to prevent moisture reformation.

2.3 Surface temperature

Pipe surface to be no less than 5°C and dry as described above. Pipe surface not to exceed 75°C. FiberTec temp. not to exceed 40°C immediately before application.

3. Application Instructions – Single Layer Only

3.1 Holiday Testing of Factory Coating Factory coating to be Holiday Tested before Fibertec application commences



3.2 FiberTec



Sheet 1

The blue film is progressively removed from FiberTec underside whilst wrapping the Fibertec around the pipe in cigarette wrap fashion.

The clear top film on FiberTec is peeled back at the linear overlap to provide a wet-on-wet joint at the overlap,

then replaced.

Remove 100mm radial width of top film at the radial overlap area to accept next sheet with wet-on-wet joint.

Sheets 2 & 3

The sheet is applied to overlap the original sheet by corresponding overlap.

Note linear sheet overlaps should be staggered to avoid excessive overlap build.

The blue film is progressively removed from FiberTec underside whilst wrapping the Fibertec around the pipe in cigarette wrap fashion.

The clear top film on FiberTec is peeled back at the linear overlap to provide a wet-on-wet joint at the overlap, then replaced.

Peel back top film at the corresponding radial overlap area to accept next sheet with wet-on-wet joint. No more than 3 sheets of FiberTec to be applied before Tension Tape installation commences.

3.3 Tension Tape

Tension tape is applied spirally with approx. 50% overlap & high tension. It compresses the FiberTec to create an intimate bond with the substrate. Apply by hand or use Uniwrapper Machine. Terminate the tension tape wrap to leave a 100mm exposed wet edge on underlying FiberTec. FiberTec installation may then recommence as outlined above, apply next 3 sheets.

4. Application Instructions – Double Layer Application for Front End of String

4.1 Holiday Testing of Factory Coating Factory coating to be Holiday Tested before Fibertec application commences

4.2 FiberTec 1st Layer

Sheet 1

The blue film is progressively removed from FiberTec underside whilst wrapping the Fibertec around the pipe in cigarette wrap fashion.

The clear top film on FiberTec is peeled back and removed entirely.

Sheets 2 & 3

The sheet is applied to overlap the original sheet by corresponding overlap.

Note linear sheet overlaps should be staggered to avoid excessive overlap build.

The blue film is progressively removed from the FiberTec underside whilst wrapping Fibertec around the pipe in cigarette wrap fashion.

The clear top film on FiberTec is peeled back and removed entirely

No more than 3 sheets of FiberTec 1st layer to be applied before 2nd layer FiberTec installation commences.

4.3 FiberTec 2nd Layer

Sheet 1

The blue film is progressively removed from FiberTec underside whilst wrapping the Fibertec around the pipe in cigarette wrap fashion.

The clear top film on 2nd layer FiberTec is peeled back at the linear overlap to provide a wet-on-wet joint at the overlap then replaced.

Remove radial width of top film at the corresponding radial overlap area to accept next sheet with wet-onwet joint.

Sheets 2 & 3

The sheet is applied to overlap the original sheet by corresponding overlap.

Note linear sheet overlaps should be staggered to avoid excessive overlap build.

The blue film is progressively removed from FiberTec underside whilst wrapping the Fibertec around the pipe in cigarette wrap fashion.





The clear top film on the 2nd layer FiberTec is peeled back at the linear overlap to provide a wet-on-wet joint at the overlap, then replaced.

Peel back top film at the corresponding radial overlap area to accept next sheet with wet-on-wet joint. No more than 3 sheets of FiberTec to be applied before Tension Tape installation commences.

4.4 Tension Tape

Tension Tape is applied spirally with approx. 50% overlap & high tension. It compresses the FiberTec to create an intimate bond with the substrate. Apply by hand or use Uniwrapper Machine. Terminate the tension tape wrap to leave a 100mm exposed wet edge on underlying FiberTec.

Fibertec installation may then recommence as outlined above, apply next 3 sheets, 1st and 2nd layers.

5. Curing of FiberTec

At completion of application of Tension Tape, FiberTec may be cured by exposure to sunlight.

FiberTec must be handed carefully whilst uncured, support the FiberTec coated pipe on the uncoated ends, not on the uncured FiberTec, do not place slings on uncured FiberTec.

Under full sunlight FiberTec will cure rapidly (120 minutes). On cloudier days cure will be extended. FiberTec must reach 60 Barcol Hardness before going into the drill hole.

Where Fibertec is to be Holiday Tested after curing it is recommended that it be tested at the voltage recommended for the factory coating

6. Repairing Damaged FiberTec

After FiberTec application, pipelines are to be handled as per parent coating manufacturer's guidelines.

Minor Damage

In case of minor damage up to 50mm x 50mm in size, take following steps to repair the defect:

- 1. Remove the transparent polyethylene film if it has been left on. Lightly abrade the damaged area + 100mm overlap.
- 2. Make sure it is clean from any dirt, dry, and degreased.
- 3. Cut and apply a suitable sized repair patch of FiberTec, making sure it overlaps the surrounding area by at least 100mm for the full perimeter of the damage.
- 4. Apply Tension Tape to keep FiberTec repair patch in place and leave for curing as per normal procedure.

Major Damage

In case of major damage larger than 50mm x 50mm in size, take following steps to repair the defect:

- 1. Remove the transparent polyethylene film if it has been left on. Lightly abrade full pipe circumference to accept a new sheet of FiberTec.
- 2. Make sure it is clean from any dirt, dry, and degreased.
- 3. Cut and apply a suitable sized sheet of FiberTec, making sure it overlaps the surrounding area by at least 100mm for the full perimeter of the damage.
- 4. Cut a FiberTec wear cone 150mm width. Install wear cone equi-spaced over leading edge of the FiberTec sleeve and existing coating. This will provide a 75mm overlap on the FiberTec sleeve and existing coating. Apply Tension Tape to keep FiberTec sheet in place and leave for curing as per normal procedure.

Where damaged FiberTec has been repaired it is to be Holiday Tested after curing at the voltage recommended for the factory coating

7. Coating of Skid Areas and Golden Welds





Existing Fibertec Co	ating		
Ň	100mm (FiberTec Sleeve	75mm
	<	Uncoated Zone 100mm	
TRAILLING EDGE			LEADING EDGE

FiberTec Wear Cone

Remove existing Tension Tape and top film from cured FiberTec as follows either side of uncoated skid area or golden weld zone:

- 100mm width at trailing edge
- 175mm width at leading edge

Cut FiberTec sleeve to suit uncoated zone width + 200mm.

Install FiberTec Sleeve equi-spaced over uncoated zone. This will provide 100mm overlap both sides of uncoated zone.

Cut a FiberTec wear cone 150mm width. Install wear cone equi-spaced over leading edge of the FiberTec sleeve and existing coating.

This will provide a 75mm overlap on the FiberTec sleeve and existing coating. Apply FiberTec overwrap as per standard procedure.

8. UV Exposure

FiberTec can be left exposed to direct sunlight for 3 months after curing.

If there is a requirement to exceed 3 months outdoor storage, tarpaulins should be employed to provide a UV barrier for the coated pipe. Pipes may be stored indefinitely when shielded by tarpaulins.



FIBERTEC ITP & QUALITY PLAN

(Read in conjunction with Application Instruction and Coating Checklist)

Universal Corrosion Coatings

Document N		Rev. No.: 4	Application of Eibertee	And Tonsion Tano			
Document		Date:	Application of Tibertec	And relision rape			
Sr. no.	Particulars	Test Frequency	Description & Acceptance Criteria	Inspection Record Documentation	Inspection by Coating Inspector	Inspection by Contractor	Inspection by Owner
Α	Raw Materials						
1	FiberTec	Each shift	Manufacturers Batch Certificates	FiberTec Coating Application Checklist	н	R	R
2	Tension Tape	Each shift	Manufacturers Batch Certificates	FiberTec Coating Application Checklist	н	R	R
3	Isopropyl Alcohol	Each shift	Manufacturers Batch Certificates	FiberTec Coating Application Checklist	н	R	R
4	Material storage (Inside container)	Each shift	Stored Horizontally in Container in Original Packaging	FiberTec Coating Application Checklist	н	R	R
5	Material storage (Inside container)	Each shift	< 25°C if stored for < 2 weeks < 15°C if stored for > 2 weeks	FiberTec Coating Application Checklist	н	R	R
В	Setup & Surface Prep						
1	Shaded Work Area	Each shift	Material fully shaded during handling and application	FiberTec Coating Application Checklist	н	R	R
1	Holiday Test Parent Coating	Each shift	No Holidays. Test voltage as per parent coating manufacturer's recommendation	FiberTec Coating Application Checklist	н	R	R
2	Clean substrate	Each shift	(Visual) Surface to be clear of foreign material, sharp edges	FiberTec Coating Application Checklist	н	R	R
3	Solvent Degrease	Each shift	Surface to be free of oil / grease	FiberTec Coating Application Checklist	н	R	R
4	Dry Surface	Each shift	(Visual) Surface is Dry	FiberTec Coating Application Checklist	н	R	R
5	Surface Temperature	Each shift	<75°C	FiberTec Coating Application Checklist	н	R	R
6	Ambient Temperature	Each shift	>5°C	FiberTec Coating Application Checklist	н	R	R
7	Humidity	Each Shift	(Visual) No dew on pipe	FiberTec Coating Application Checklist	н	R	R



FIBERTEC ITP & QUALITY PLAN

(Read in conjunction with Application Instruction and Coating Checklist)

Universal Corrosion Coatings

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Document		Date:	Application of Fibertec	And rension rape			
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Sr. no.	Particulars	Test Frequency	Description & Acceptance Criteria	Inspection Record Documentation	Inspection by Coating Inspector	Inspection by Contractor	Inspection by Owner
С	Coating Application SINGLE LAYER						
1	Confirm Radial Overlap On FiberTec PPS Wrap	Each Shift	>100mm	FiberTec Coating Application Checklist	Н	R	R
2	Confirm Lineal Overlap on FiberTec PPS Wrap	Each Shift	>100mm	FiberTec Coating Application Checklist	н	R	R
3	Confirm all overlaps are wet-on- wet	Each Shift	Wet-on-wet joints	FiberTec Coating Application Checklist	н	R	R
4	Confirm No Wrinkling in FiberTec PPS Wrap	Each Shift	(Visual) No significant wrinkling	FiberTec Coating Application Checklist	н	R	R
5	Confirm max. 3 adjoining sheets of Fibertec may be applied before Tension Tape installation	Each Shift	Max. 3 adjoining sheets of Fibertec may be applied before Tension Tape installation	FiberTec Coating Application Checklist	Н	R	R
6	Confirm Tension on FiberTec Overwrap	Each Shift	(Visual) Confirm tight application.	FiberTec Coating Application Checklist	н	R	R
7	Confirm 100mm exposed wet edge on Fibertec after Tension Tape installation	Each Shift	100mm exposed wet edge on Fibertec	FiberTec Coating Application Checklist	Н	R	R
D	Coating Application DOUBLE LAYER FOR FRONT END						
	1st Layer						
1	Confirm Radial Overlap On FiberTec PPS Wrap	Each Shift	>100mm	FiberTec Coating Application Checklist	н	R	R
2	Confirm Lineal Overlap on FiberTec PPS Wrap	Each Shift	>100mm	FiberTec Coating Application Checklist	н	R	R
3	Confirm transparent top film on FiberTec 1st layer removed entirely	Each Shift	Transparent top film entirely removed after sheet application	FiberTec Coating Application Checklist	Н	R	R
4	Confirm all overlaps are wet-on- wet	Each Shift	Wet-on-wet joints	FiberTec Coating Application Checklist	н	R	R



FIBERTEC ITP & QUALITY PLAN

(Read in conjunction with Application Instruction and Coating Checklist)

Universal Corrosion Coatings

	lo: ITP FiberTec	Rev. No.: 4	Application of Fibertec	And Tension Tane			
Document		Date:	Application of Tibertec	And relision rape			
		÷					
Sr. no.	Particulars	Test Frequency	Description & Acceptance Criteria	Inspection Record Documentation	Inspection by Coating Inspector	Inspection by Contractor	Inspection by Owner
5	Confirm No Wrinkling in FiberTec PPS Wrap	Each Shift	(Visual) No significant wrinkling	FiberTec Coating Application Checklist	н	R	R
	2nd Layer						
6	Confirm Radial Overlap On FiberTec PPS Wrap	Each Shift	>100mm	FiberTec Coating Application Checklist	н	R	R
7	Confirm Lineal Overlap on FiberTec PPS Wrap	Each Shift	>100mm	FiberTec Coating Application Checklist	н	R	R
8	Confirm all overlaps are wet-on- wet	Each Shift	Wet-on-wet joints	FiberTec Coating Application Checklist	н	R	R
9	Confirm No Wrinkling in FiberTec PPS Wrap	Each Shift	(Visual) No significant wrinkling	FiberTec Coating Application Checklist	н	R	R
10	Confirm max. 3 adjoining sheets of Fibertec may be applied before Tension Tape installation	Each Shift	Max. 3 adjoining sheets of Fibertec may be applied before Tension Tape installation	FiberTec Coating Application Checklist	н	R	R
11	Confirm Tension on FiberTec Overwrap	Each Shift	(Visual) Confirm tight application.	FiberTec Coating Application Checklist	н	R	R
12	Confirm 100mm exposed wet edge on Fibertec after Tension Tape installation	Each Shift	100mm exposed wet edge on Fibertec	FiberTec Coating Application Checklist	н	R	R
Е	Post Application Inspection & Testing: (Production)						
1	Fully Cured Coating	Each Shift	Check for hard finish after 120 minutes full UV exposure	FiberTec Coating Application Checklist	н	R	R
2	Barcol Hardness	Each Shift	> 60	FiberTec Coating Application Checklist	н	R	R
3	Holiday Test Cured FiberTec (Optional)	Each Shift	No Holidays. Test voltage same as parent coating	FiberTec Coating Application Checklist	н	R	R
4	Final Release	Each Shift	Confirm ready for HDD	FiberTec Coating Application Checklist	н	R	R
Legend:	H: HOLD W: WITNESS R: F	REVIEW / RECORD R/M	I: RANDOM CHECK				



FiberTec Coating Application Checklist (Read in Conjuction with Application Instructions and Coating Checklist) Rev. 1

Universal Conosion Coal	ings		
Client: F		Project:	
Application location:		Date:	
Batch Number FiberTec:		Batch Number Tension Tape:	
Start Time:	Finish Time:	No. of wraps applied:	
		Approx. meterage:	
		Inspection by	

Sr. No.	Particulars	Description & Acceptance Criteria	Coating Inspector	Contractor	Owner
Α	Raw Materials				
1	FiberTec PPS Wrap	Manufacturers Batch Certificates			
2	FiberTec OverWrap	Manufacturers Batch Certificates			
3	Sovent - IsoPropyl Alcohol	Manufacturers Batch Certificates			
4	Material storage (Inside container)	Stored Horizontally in Container in Original Packaging			
5	Material storage (Inside container)	< 25°C if stored for < 2 weeks < 15°C if stored for > 2 weeks			
В	Setup and Surface Prep				
1	Appropriate Shading of Work Zone	Fibertec Shaded from UV during handling and apllication.	kV	kV	kV
2	Holiday Test Parent Coating	No Holidays. Test voltage as per parent coating manufacturer's recommendation	kV	kV	kV
3	Clean existing coating and steel	(Visual) Surface to be clear of foreign material, sharp edges			
4	Degrease existing coating and steel	Surface to be free of oil & grease			
5	Dry existing coating and steel	(Visual) Surface is Dry			
6	Temperature of existing coating and steel	< 75°C	°C	°C	°C
7	Ambient Temperature	> 5°C	°C	°C	°C
8	Humidity Check	(Visual) No dew on pipe			
С	Coating Application SINGLE LAYER				
1	Confirm Radial Overlap On FiberTec PPS Wrap	>100mm			
2	Confirm Lineal Overlap on FiberTec PPS Wrap	>100mm			
3	Confirm all overlaps are wet-on- wet	Wet-on-wet joints			
4	Confirm No Wrinkling in FiberTec PPS Wrap	(Visual) No significant wrinkling			
5	Confirm max. 3 adjoining sheets of Fibertec may be applied before Tension Tape installation	Max. 3 adjoining sheets of Fibertec may be applied before Tension Tape installation			
6	Confirm Tension on FiberTec Overwrap	(Visual) Confirm tight application			
7	Confirm 100mm exposed wet edge on Fibertec after Tension Tape installation	100mm exposed wet edge on Fibertec			



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FiberTec Coating Application Checklist (Read in Conjuction with Application Instructions and Coating Checklist) Rev. 1

Client:		Project:		
Application location:		Date:		
Batch Number FiberTec:		Batch Number Tension Tape:		
Start Time:	Finish Time:	No. of wraps applied:		
		Approx. meterage:		

				Inspection by	
Sr. No.	Particulars	Description & Acceptance Criteria	Coating Inspector	Contractor	Owner
D	Coating Application DOUBLE LAYER FOR FRONT END				
	1st Layer				
1	Confirm Radial Overlap On FiberTec PPS Wrap	>100mm			
2	Confirm Lineal Overlap on FiberTec PPS Wrap	>100mm			
3	Confirm transparent top film on FiberTec 1st layer removed entirely	Transparent top film entirely removed after sheet application			
4	Confirm all overlaps are wet-on- wet	Wet-on-wet joints			
5	Confirm No Wrinkling in FiberTec PPS Wrap	(Visual) No significant wrinkling			
	2nd Layer				
6	Confirm Radial Overlap On FiberTec PPS Wrap	>100mm			
7	Confirm Lineal Overlap on FiberTec PPS Wrap	>100mm			
8	Confirm all overlaps are wet-on- wet	Wet-on-wet joints			
9	Confirm No Wrinkling in FiberTec PPS Wrap	(Visual) No significant wrinkling			
10	Confirm max. 3 adjoining sheets of Fibertec may be applied before Tension Tape installation	Max. 3 adjoining sheets of Fibertec may be applied before Tension Tape installation			
11	Confirm Tension on FiberTec Overwrap	(Visual) Confirm tight application			
12	Confirm 100mm exposed wet edge on Fibertec after Tension Tape installation	100mm exposed wet edge on Fibertec			
Е	Post Application Inspection & Testing: (Production)				
1	Fully Cured Coating	Check for hard finish after 120 minutes full UV exposure			
2	Barcol Hardness	> 60			
3	Holiday Test Cured FiberTec (Optional)	No Holidays. Test voltage same as parent coating	kV	kV	kV
4	Final Release	Confirm ready for HDD			
gend:	H: HOLD W: WITNESS R: RE	VIEW / RECORD R/M: RANDOM	CHECK		

FiberTec

Table 1. Technical Information on FiberTec (UV-curing Polyester)

Properties	Unit	Value	Method
Volume weight/density	g/cm ³	1.84	ISO 1183
Tensile strength	MPa	65	EN ISO 527-4
Tensile modulus	MPa	9.000	EN ISO 527-4
Strain at break	%	1.7	EN ISO 527-4
Flexural strength	MPa	150	EN ISO 14125
Flexural modulus	MPa	9.000	EN ISO 14125
Compressive strength	MPa	150	EN ISO 14126
Compressive modulus	MPa	14.000	EN ISO 14126
Impact strength	kJ/m ²	57	EN ISO 179
Coefficient of linear thermal expansion	K ⁻¹	20 x 10 ⁻⁶	ISO 11359-2
Glass content	%	25	ISO 1172
Volume shrinkage	%	0.15	ISO 2577
Hardness	Barcol	>60	ASTM D2583
Water absorption	mg/100 hr.	0.2	EN ISO 62
Water vapour permeability	metric perms	0.001	ASTM E96
Insulation resistance	Ω	3.2x10 ⁴	
Styrene emission	PPM	< 20	
Service temp.	°C	min165 max 90	
Heat distortion temp.	°C	225	
Application temperature	°C	>5	

(All figures can show small differences)

Table 2. Dimensions and weight of FiberTec (UV-curing Polyester)

Standard roll length	10 m	Thickness	1.8 mm
Roll width	1.0 m	Weight	$\pm 3.5 \text{ kg/m}^2$
Net sqm per roll	10	Total weight (incl. packing)	± 38 kg
		(All figuroo	oon abow amall differences)

(All figures can show small differences)

Transportation, storage & shelf life:

Keep away from UV.

Always store in horizontal position.

Keep below 25°C if stored for less than 2 weeks.

Keep below 15°C if stored for more than 2 weeks.

Shelf life is at least 24 months from date of manufacture when stored horizontally and below 15°C.

FiberTec



In the table, recommendations are effective for all concentrations of chemicals except where otherwise stated.

Key to table

- A Suitable for use cold up to 50°C (85°F)
- B Intermittent exposure only cold
- C Suitable for use hot up to 75°C (167°F)
- D Intermittent exposure only hot
- X Not recommended

Reagent

Acetic Acid 10%	С	Ferric and Ferrous Sulphate	С
Acetic Acid 25% (50°C)	C	Fluosilicic Acid 23%	Х
Acetic Acid 75%	В	Formaldehyde 37%	А
Acetic Anhydride	Х	Glycerine	С
Acetone	В	n-Heptane	А
Acetonitrile	Х	Hexane	А
Acrylonitrile	В	Hvdrazine	Х
Aluminium Chloride	С	Hydrobromic Acid 50%	В
Aluminium Citrate	Ċ	Hydrochloride Acid 10%	С
Aluminium Fluoride	X	Hydrochloride Acid 20%	Ā
Aluminium Sulphate	С	Hydrochloride Acid 37%	А
Ammonia (liquid)	X	Hydrofluoric Acid 10%	В
Ammonium Benzoate	С	Hydrofluoric Acid 20%	Х
Ammonium Chloride	Ċ	Hydrofluosilicic Acid (gas)	Х
Ammonium Citrate	Ċ	Hydrogen Peroxide 25%	Х
Ammonium Hvdroxide 10%	В	Hydrogen Sulphide	А
Ammonium Hydroxide 18%	В	Hypochlorous Acid 50%	А
Amvlamine	Х	Isodecanol	С
Aniline	Х	Isopropyl Sulphate 100%	Х
Aniline Hydrochloride	С	Kerosene	С
Aniline Sulphate	Ċ	Linolenic	Ċ
Agua Regia vapour	X	Lactic Acid	Ċ
Barium acetate	С	Lead Acetate	C
Barium Chloride	C	Lead Chloride	C
Barium Hydroxide 10%	Х	Lead Nitrate	С
Barium Sulphide	А	Levulinic Acid	С
Benzaldehyde	В	Bromine	Х
Benzene	В	Butyl Acetate	Х
Benzoic Acid	С	Butyl Benzyl Phthalate	Х
Boric Acid	С	Butyl Cellocolve	Х
Brine (Saturated)	С	B Butylene Glycol	С
Diethylene Glycol	С	Butyraldehyde	Х
Diethyl Ether	В	Butyric Acid 25%	А
Ethanol (wet)	А	Capric	С
Ethanolamine, mono	В	Calcium Chlorate	С
Ethanolamine, tri	В	Calcium Chloride	С
Ethyl Acetate	Х	Calcium Hydroxide 20%	Х
Ethylene Chlorohydrin	А	Calcium Hypochlorite 10%	А
Ethylene Diamene	Х	Carbon Dioxide (Saturated)	С
Ethylene Dichloride	Х	Carbon Disulphide	Х
Ethylene Glycol	С	Carbon Tetrachloride	В
Fatty Acids – Saturated	Č	Chloractic Acid 50%	Ā
Formaldehvde 44%	Ā	Chlorine Dioxide 10%	В
Formic Acid 25%	В	Chlorine Gas (wet or drv)	Ā
Ferric and Ferrous Acetate	C	Copper Ammonium Chloride	C
Ferric and Ferrous Chloride	Č	Creosote	x
Ferric and Ferrous Nitrate	Č	Cresvlic Acid	X
	-		~



FiberTec

Cupric and Cuprous Acetate
Cupric and Cuprous Chloride
Cupric and Cuprous Cvanide
Cupric and Cuprous Nitrate
Cupric and Cuprous Sulphate
Cvclohexane
Decanol
Dialtyl Phthalate
Dimethyl Kentonr
Dimethyl Maleate 5%
Dimethyl Maleate 100%
Dipropylene Glycol
Dibutyl Phthalate
Dichlorobenzene
Linseed Oil
Lauric
Linoleic
Magnesium Chloride
Magnesium Nitrate
Myristic
Palmitic
Oleic
Stearic
Sorbitol
Sodium Chloride (Saturated)
Sodium Citrate

CCCCCACCBBXCCXCCCCCCCCXCCXB

Sodium Glucoheptonate	С
Sodium Hydrosulphite	Ă
Sodium Hydroxide (10%)	Ċ
Sodium Hypochlorite (10%)	č
Sodium Nitrite	Č
Sodium Sulphate	Č
Sodium Thiocvanate	Ă
Stoddard Solvent	C
Sulphanilic Acid	В
Sulphite Liquors	Х
A Sulphur Dioxide	В
Sulphuric Acid 50%	С
Sulphuric Acid 75%	С
Sulphuric Acid 25%	В
Tannic Acid	Х
Tartaric Acid	В
p-Toluene Sulphonamide	В
Toluol	Х
Toluylene Disolcyanate	С
Trichloroacetic Acid 50%	Х
Triethanolomine	С
Trisodium Phosphate 10%	В
Tung Oil	С
Water	С
Xylol	С



PRODUCT DATA SHEET

Tension Tape for FiberTec



Description Tension Tape is designed to compress and densify the FiberTec coating, ensuring an intimate bond with pipe substrate.

It is applied spirally under tension, incorporating approx. a 50% overlap.

Properties	Value
Tape Thickness (um)	65 ± 2
Backing	Polyethylene
Adhesive	Water base Adhesive 28microns
Colour	Transparent
Adhesion to Steel, N/25mm	7.0
Tack, Ball Number	≥ 30
Holding Power, hr/kg/24mm	≥ 100

Product Packaging		
Roll Widths (mm)	Lengths (m)	
144mm	100m	

Storage Conditions: Store in a clean, dry place. Temperature of 4-26°C and 40-50% relative humidity are recommended.