



ADVANCED ANTI-CORROSION PROTECTION AND PIPELINE REPAIR SYSTEMS

**Heat-Shrink Sleeves, Petrolatum Tapes, Primers and
Repair Systems for Critical Infrastructure**



OUR GROUP

SIEBC is an industrial group specializing in the engineering, manufacturing, distribution, and installation of solutions for the transportation, protection, and control of fluids in conventional and renewable energy infrastructure.

With more than 20 years of experience, internationally supplied products, and projects executed across four continents, the Group develops technologies designed to extend asset service life, reduce maintenance interventions, and enhance operational safety.

TEKCOAT: COMPLETE PIPELINE PROTECTION

TEKCOAT provides a comprehensive range of anti-corrosion protection and repair systems designed for field weld joints, pipelines, valves, flanges, fittings, and factory-applied coatings. The product portfolio combines heat-shrink solutions, cold-applied tapes, epoxy primers, and composite reinforcement systems to meet a wide range of operating temperatures, geometries, surface conditions, and industry standards.

- Anti-corrosion protection for applications ranging from low-temperature service up to continuous operation at +100 °C.
- Two-layer and three-layer systems for field weld joints and pipeline components.
- Solutions for manually prepared surfaces, complex geometries, and wet substrates.
- Factory coating repair and restoration of structural integrity.
- Compatible with common pipeline coatings, including PE, PP, FBE, PU, CTE, and bitumen, depending on the product.

A comprehensive product range designed to help select the optimum solution based on operating temperature, type of damage, surface preparation, geometry, and project performance requirements.



PROTECT THE ASSET. REDUCE THE RISK.

Field weld joints, fittings, flanges, and damage to factory-applied coatings are critical points in any pipeline system. Moisture, salts, temperature fluctuations, mechanical stresses, and inadequate surface preparation can accelerate corrosion and significantly reduce the service life of the asset.

The selection of the appropriate protection system should take into account not only the operating temperature, but also the component geometry, the existing coating, the achievable level of surface preparation, the need to perform installation while the pipeline remains in service, and the project's technical specifications and regulatory requirements.

WHAT DOES TEKCOAT DELIVER?

- Durable anti-corrosion barriers with outstanding adhesion and mechanical strength.
- Systems engineered for a wide range of operating temperatures and environmental conditions.
- Primer-free, blast-cleaning-free, or reduced preheating options to accelerate installation.
- Complete life-cycle solutions, including field joint protection, factory coating repair, and structural reinforcement.
- Products with performance validated in accordance with international standards, depending on the selected solution.



A SOLUTION FOR EVERY APPLICATION

Product Family	Products	Primary Function
Heat-Shrink Mastics Sleeves	MTS 30, MTS 55 y MTS 55 HS65	Protection of field weld joints and pipeline components with rapid installation, minimal surface preparation, and primer-free application options.
Hot-Melt Heat-Shrink Sleeves	HTS 70, HTS 90 y HTS 100	High-performance systems for elevated-temperature service, available in both 2-layer and 3-layer configurations.
Self-Healing Sleeve	Bond BTS 60	Protection for continuous service up to +60 °C, requiring minimal surface preparation and offering self-healing properties for minor mechanical damage.
Epoxy Primers	Primer EP y Primer EP HT	Surface preparation for 3-layer heat-shrink systems, improving adhesion and resistance to cathodic disbondment.
Petrolatum Tapes	Tape ST, Tape ET y Tape HT	Cold-applied protection for complex geometries, from cold-climate applications up to continuous service at +100 °C.
Coating Repair Systems	Repair REP MT	Localized repair of damage to factory-applied coatings caused during transportation, storage, or installation.
Structural Reinforcement Systems	Expand CF70	Restoration of the structural integrity of pipelines affected by corrosion or erosion using carbon composite materials.



SELECTION BY OPERATING TEMPERATURE AND APPLICATION

Product	Operating Temperature	System	Surface Preparation	Primer	Standards	Recommended Application
Tape MTS 30	+30 °C	Mastic, 2-layer	St 2 (manual/mechanical cleaning); no abrasive blasting	No	EN 12068-C30; ISO 21809-3 14A-1	Field weld joints; cost-effective solution
Tape MTS 55	+60 °C	Mastic, 2-layer	St 2 (manual/mechanical cleaning); no abrasive blasting	No	EN 12068-C50; ISO 21809-3 14A-1	Field weld joints; general-purpose application
Bond BTS 60	+60 °C	Bituminous coating, 2-layer	St 2 (manual/mechanical cleaning); no abrasive blasting	No	EN 12068-C HT60; ISO 21809-3 14A-2	Self-healing system with minimal surface preparation
Tape MTS 55 HS65	+60 °C	High-shrink mastic	Clean surface in accordance with ISO 8501-1	No	EN 12068-C50; ISO 21809-3 14A-2	Large diameter transitions and irregular geometries
Tape HTS 70	+70 °C	Hot-melt, 2- or 3-layer	Reduced preheating	Optional / Primer EP	EN 12068-C HT60; ISO 21809-3 14B-1	High adhesion; ideal for 3LPE coating systems
Tape HTS 90	+90 °C	Hot-melt, 2- or 3-layer	Reduced preheating	Optional / Primer EP	EN 12068-C HT80 UV; GOST R	High-temperature service
Tape HTS 100	+ 100 °C	Hot-melt, 3-layer	Surface preparation and preheating required	Primer EP HT	EN 12068-C100; ISO 21809-3 14B-2	Highest operating temperature in the product range
Tape ST	-40 a +45 °C	Cold-applied petrolatum	Wire brushing / manual cleaning	Optional petrolatum mastic	Tested in accordance with EN 12068; AWWA; ASTM D149	Cold climates and complex geometries
Tape ET	-40 a +70 °C	Cold-applied petrolatum	Wire brushing / manual cleaning	Optional petrolatum mastic	Tested in accordance with EN 12068; AWWA; ASTM D149	Warm climates and multipurpose applications
Tape HT	-40 a +100 °C	High-temperature petrolatum	Wire brushing	Primer AQ HT for wet surfaces	EN 12068-A100; ISO 21809-3 11A	Wet surfaces and irregular geometries

SELECTION GUIDELINES

This table is intended as an initial selection guide. The final product selection should always be confirmed based on the actual operating conditions, the existing coating system, the application procedure, and the specific project requirements.

TEKCOAT Heat-Shrink Sleeves protect field weld joints through a cross-linked polyethylene backing with a specially formulated adhesive layer designed to bond to both the prepared steel surface and the existing factory-applied coating. During heat application, the sleeve shrinks in a controlled manner, forming a continuous, high-integrity protective barrier around the joint.

TWO ADHESIVE TECHNOLOGIES

- Mastic: Excellent wetting capability, easy installation, and options requiring minimal surface preparation.
- Hot-Melt: Superior mechanical and thermal performance, particularly suited for three-layer systems equivalent to 3LPE coatings.

2-LAYER AND 3-LAYER CONFIGURATIONS

The 2-layer systems combine the polyethylene backing with the adhesive layer. The 3-layer systems incorporate an epoxy primer that conditions the steel surface, enhancing resistance to cathodic disbondment, improving adhesion, and increasing long-term durability.

- Protection of field weld joints on steel pipelines.
- Compatible with common factory-applied coating systems, depending on the product.
- Available as pre-fabricated sleeves or master rolls, supplied with matching closure patches.
- Manufactured for a wide range of pipe diameters and sleeve widths.



Heat-Shrink Mastic Sleeve for Cost-Effective Field Joint Protection

Maximum installation efficiency for continuous service up to +30 °C, requiring no abrasive blasting, no primer, and no intensive preheating.

Description

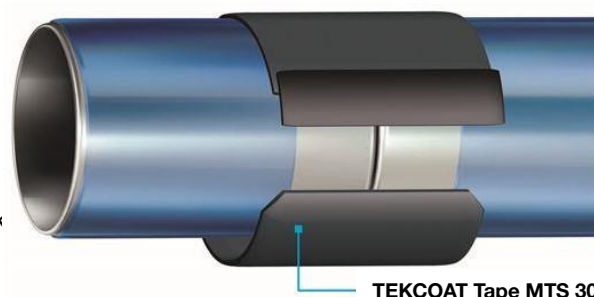
TEKCOAT Tape MTS 30 combines a cross-linked polyethylene backing with a high-wetting mastic adhesive layer. This 2-layer system is applied directly onto steel surfaces prepared to St 2 in accordance with ISO 8501-1.

Its reduced surface preparation requirements simplify field installation and minimize application time. Before installation, the surface only needs to be dry and maintained at a temperature above +23 °C.

The sleeve provides reliable anti-corrosion protection together with excellent peel and shear resistance for pipelines operating at moderate temperatures.

Key Benefits

- No abrasive blasting or primer required.
- Fast and simple 2-layer installation system.
- Compatible with PE, PP, FBE, PU, and bitumen coatings.
- Cost-effective solution for low-temperature pipeline network



Recommended Applications

- Field weld joints on buried and industrial steel pipelines.
- Projects where rapid installation and cost efficiency are key priorities.

Technical Specifications

Parameter	Value / Range
Maximum Operating Temperature	+30 °C (+86 °F)
Surface Preparation	St 2 (manual or mechanical cleaning) in accordance with ISO 8501-1; abrasive blasting not required.
Standards	EN 12068-C30; ISO 21809-3, Class 14A-1
Pipe Size Range	DN 30 to DN 3000 according to the product datasheet; confirm the actual outside diameter (OD, mm/in.) for product selection and ordering.
Standard Widths	350, 450, 550, and 650 mm
Shelf Life	Guaranteed for a minimum of 60 months from the date of manufacture when stored in the original unopened packaging at temperatures $\leq +30$ °C in a dry environment.

General-Purpose Mastic Heat-Shrink Sleeve for Field Weld Joint Protection

The versatile solution of the MTS range, designed for continuous service up to +60 °C with minimal surface preparation and cost-effective installation.

Description

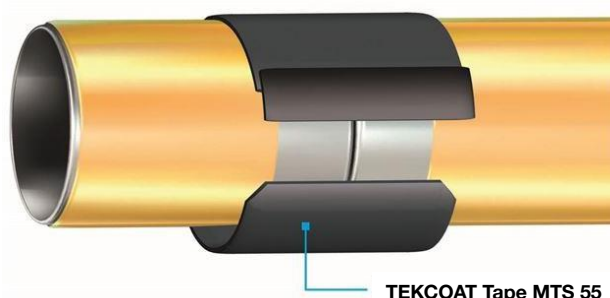
TEKCOAT Tape MTS 55 protects field weld joints using a durable cross-linked polyethylene backing and a high-performance mastic adhesive layer. The sleeve is applied directly onto steel surfaces prepared to St 2 in accordance with ISO 8501-1, requiring no abrasive blasting and no primer.

The system is designed for fast, simple, and repeatable installation. Flame drying is sufficient to meet installation requirements, while additional preheating can further improve adhesion.

When a 3-layer configuration is required, the sleeve can be used in combination with TEKCOAT Primer EP.

Key Benefits

- Suitable for continuous service up to +60 °C (+140 °F).
- No abrasive blasting or primer required in the standard configuration.
- Excellent peel and shear resistance.
- Compatible with PE, PP, FBE, PU, and bitumen coatings.



Recommended Applications

- Field weld joints on gas, oil, water, and industrial pipeline systems.
- Projects requiring the optimum balance of performance, versatility, and cost efficiency.

Technical Specifications

Parameter	Value / Range
Maximum Operating Temperature	+60 °C (+140 °F)
Standards	EN 12068-C50; ISO 21809-3, Class 14A-1
Surface Preparation	St 2 (manual or mechanical cleaning) in accordance with ISO 8501-1; abrasive blasting not required.
Pipe Size Range	DN 30 to DN 3000 according to the product datasheet; confirm the actual outside diameter (OD, mm/in.) for product selection and ordering.
Standard Widths	350, 450, 550, and 650 mm
Shelf Life	Guaranteed for a minimum of 60 months from the date of manufacture when stored in the original unopened packaging at temperatures $\leq$ +50 °C in a dry environment.

Self-Healing Heat-Shrink Sleeve with Bituminous Coating

Protection for continuous service up to +60 °C with minimal surface preparation—no abrasive blasting, no preheating, and no mandatory primer required.

Description

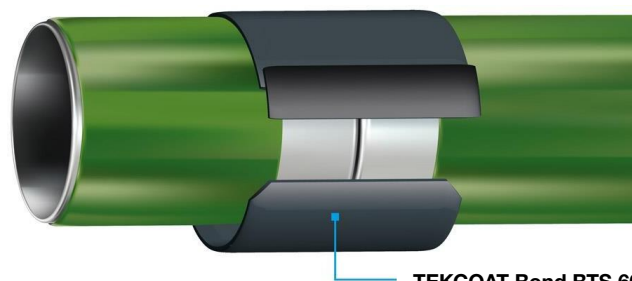
TEKCOAT Bond BTS 60 combines a cross-linked polyethylene backing with a specially formulated bituminous coating that provides long-term corrosion protection. Its flow characteristics give the system self-healing properties, allowing it to recover from minor mechanical damage and maintain the integrity of the protective barrier.

The system is applied to steel surfaces prepared in accordance with ISO 8501-1. The requirements of EN 12068 and ISO 21809-3 are achieved even with St 2 manual surface preparation and without preheating.

An integrated temperature indicator provides visual confirmation of the correct heat input, ensuring consistent and reliable installation.

Key Benefits

- Self-healing properties for minor mechanical damage.
- No primer required.
- No abrasive blasting or preheating required.
- Reduced installation time and lower application costs.



Recommended Applications

- Field weld joints where surface preparation is limited.
- Maintenance and rehabilitation projects requiring a fast, reliable, and robust corrosion protection solution.

Technical Specifications

Parameter	Value / Range
Maximum Operating Temperature	+60 °C (+140 °F)
Standards	EN 12068-C HT60; ISO 21809-3, Type 14A-2
Surface Preparation	St 2 (manual or mechanical cleaning) in accordance with ISO 8501-1; no abrasive blasting or preheating required.
Sleeve Thickness	≥ 2,6 mm
Pipe Size Range	DN 30 to DN 3000 according to the product datasheet; confirm the actual outside diameter (OD, mm/in.) for product selection and ordering.
Standard Widths	350, 450, 550, and 650 mm
Shelf Life	Guaranteed for a minimum of 60 months from the date of manufacture when stored in the original unopened packaging at temperatures ≤ +50 °C in a dry environment.

High-Shrink Heat-Shrink Mastic Sleeve for Components with Large Diameter Variations

Up to 65% free shrink for reliable protection of couplings, flanges, casing end seals, and components with extreme diameter transitions.

Description

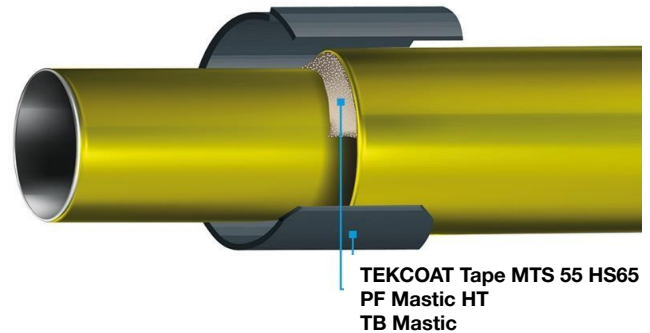
TEKCOAT Tape MTS 55 HS65 is specifically designed for pipeline components where conventional heat-shrink sleeves cannot achieve a secure fit. Its exceptionally high shrink ratio allows it to conform tightly around pre-assembled components, casing end seals, couplings, flanges, and other complex geometries.

The sleeve combines a cross-linked polyethylene backing with a high-performance mastic adhesive layer and is applied without primer to surfaces cleaned in accordance with ISO 8501-1.

Profiling mastics may be used to smooth bolts, step changes, and surface irregularities before installation, ensuring optimum sleeve conformity and long-term sealing performance.

Key Benefits

- Approximately 65% free shrink capability.
- No primer required.
- Long-lasting protection for complex geometries.
- Reduces the need for special fabrication and installation procedures.



Recommended Applications

- Casing end seals.
- Couplings, flanges, and diameter transitions.
- Components subject to periodic maintenance.

Technical Specifications

Parameter	Value / Range
Maximum Operating Temperature	+60 °C (+140 °F)
Standards	EN 12068-C50; ISO 21809-3, Type 14A-2
Surface Preparation	Surface cleaned in accordance with ISO 8501-1; no specific St or Sa preparation grade is specified in the technical datasheet.
Supplied Sleeve Thickness	> 1,9 mm
Free Shrink Ratio	Aprox. 65 %
Standard Widths	350, 450, 550, and 650 mm
Master Roll Length	30 m
Shelf Life	Guaranteed for a minimum of 60 months from the date of manufacture when stored in the original unopened packaging at temperatures $\leq +50$ °C in a dry environment.

Hot-Melt Heat-Shrink Sleeve for High-Performance Applications and 3LPE-Equivalent Systems

High adhesion, excellent shear resistance, and continuous service up to +70 °C.

Description

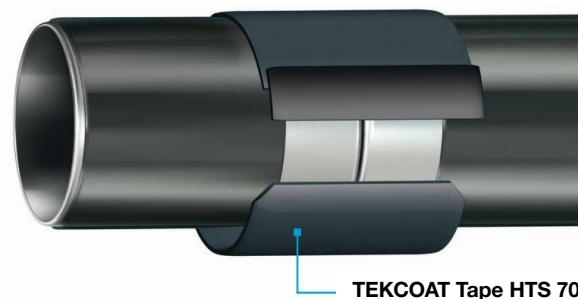
TEKCOAT Tape HTS 70 combines a cross-linked polyethylene backing with a high-performance hot-melt adhesive to protect field weld joints and steel pipeline components. It can be installed either as a 2-layer system or, in combination with TEKCOAT Primer EP, as a 3-layer system.

The 3-layer configuration provides enhanced application reliability and improved long-term protection, particularly where damage to the outer sleeve may occur. The system also requires lower preheating temperatures than comparable products, helping to simplify installation while maintaining high performance.

The sleeve is compatible with factory-applied PE, PP, FBE, PU, and bitumen coatings.

Key Benefits

- Continuous operating temperature up to +70 °C (+158 °F).
- 3-layer system equivalent to 3LPE coating technology.
- Outstanding adhesion and shear resistance.
- Approved in accordance with specifications referenced by Gaz de France, Enagás, and GOST R.



Recommended Applications

- Gas and oil pipelines operating at elevated temperatures.
- Field weld joints on pipelines with factory-applied 3LPE coating systems.

Technical Specifications

Parameter	Value / Range
Maximum Operating Temperature	+70 °C (+158 °F)
Standards	EN 12068-C HT60; ISO 21809-3, Class 14B-1
Surface Preparation	No specific St or Sa preparation grade is specified in the technical datasheet. Follow the approved application procedure for the system and use Primer EP where applicable.
Configuration	2-layer or 3-layer system with Primer EP
Pipe Size Range	DN 30 to DN 3000 according to the product datasheet; confirm the actual outside diameter (OD, mm/in.) for product selection and ordering.
Standard Widths	350, 450, 550, and 650 mm
Shelf Life	Guaranteed for a minimum of 60 months from the date of manufacture when stored in the original unopened packaging at temperatures ≤ +50 °C in a dry environment.

High-Temperature Hot-Melt Heat-Shrink Sleeve for Field Weld Joints

Durable anti-corrosion protection for continuous service up to +90 °C, available in 2-layer or 3-layer configurations.

Description

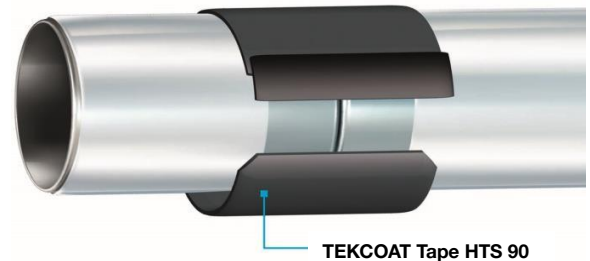
TEKCOAT Tape HTS 90 consists of a cross-linked polyethylene backing with a high-performance hot-melt adhesive layer. It can be installed as a 2-layer system or combined with TEKCOAT Primer EP to create a 3-layer system.

The epoxy primer enhances corrosion protection in the event of damage to the outer sleeve and reduces the risk associated with inadequate surface preparation.

The sleeve provides excellent peel resistance, compatibility with the most common factory-applied coating systems, and requires a lower preheating temperature than comparable products.

Key Benefits

- Continuous operating temperature up to +90 °C (+194 °F).
- 3-layer system equivalent to 3LPE coating technology.
- Excellent peel resistance.
- GOST R approval referenced in the product documentation.



Recommended Applications

- Process and transmission pipelines operating at elevated temperatures.
- Rehabilitation of field weld joints on pipelines coated with PE, PP, FBE, PU, or bitumen.

Technical Specifications

Parameter	Value / Range
Maximum Operating Temperature	+90 °C (+194 °F)
Standards	EN 12068-C HT80 UV; GOST R 51164-98 approval
Surface Preparation	No specific St or Sa preparation grade is specified in the technical datasheet. Follow the approved application procedure for the system and use Primer EP where applicable.
Configuration	2-layer or 3-layer system with Primer EP
Pipe Size Range	DN 30 to DN 3000 according to the product datasheet; confirm the actual outside diameter (OD, mm/in.) for product selection and ordering.
Standard Widths	350, 450, 550, and 650 mm
Shelf Life	Guaranteed for a minimum of 60 months from the date of manufacture when stored in the original unopened packaging at temperatures $\leq +50$ °C in a dry environment.

High-Temperature Hot-Melt Heat-Shrink Sleeve for 3-Layer Systems

The highest-temperature solution in the TEKCOAT heat-shrink range, designed for continuous service up to +100 °C when used with TEKCOAT Primer EP HT.

Description

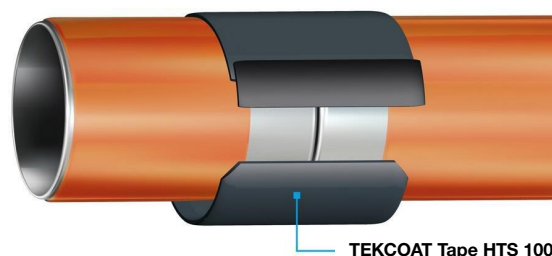
TEKCOAT Tape HTS 100 combines a cross-linked polyethylene backing with a high-performance hot-melt adhesive. An integrated temperature indicator provides visual confirmation of the correct heat input during installation, helping to ensure consistent application quality.

When used together with TEKCOAT Primer EP HT, the system forms a 3-layer coating comparable to a factory-applied coating, delivering outstanding resistance to shear forces, cathodic disbondment, abrasion, and chemical exposure.

The formulation is specifically engineered for field weld joints operating under the most demanding thermal conditions within the TEKCOAT product range.

Key Benefits

- Continuous operating temperature up to +100 °C (+212 °F).
- Excellent resistance to shear stress and cathodic disbondment.
- High resistance to abrasion and chemical exposure.
- 3-layer system used with TEKCOAT Primer EP HT.



Recommended Applications

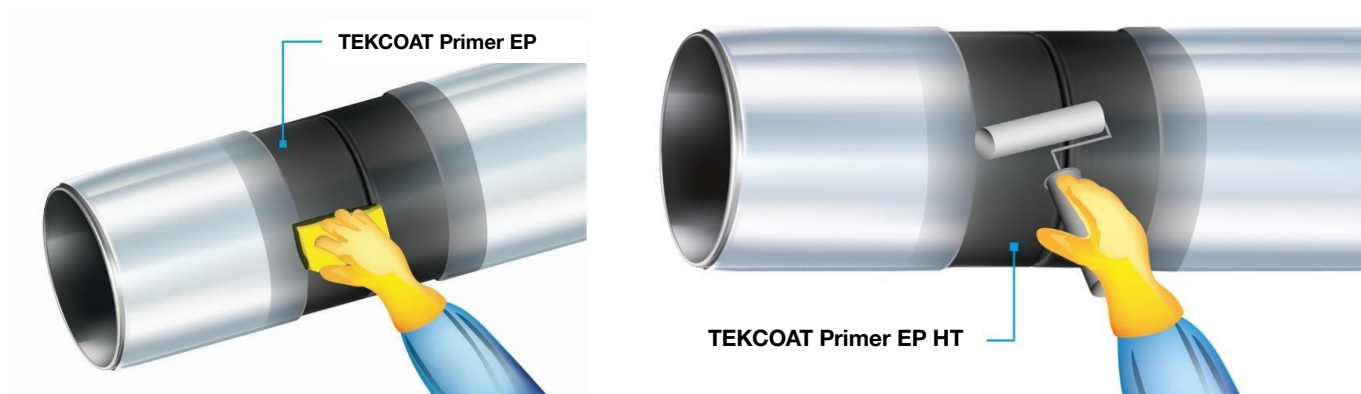
- High-temperature transmission and process pipelines.
- Field weld joints requiring maximum protection against cathodic disbondment.

Technical Specifications

Parameter	Value / Range
Maximum Operating Temperature	+100 °C (+212 °F)
Standards	EN 12068-C100; ISO 21809-3, Type 14B-2
Surface Preparation	No specific St or Sa preparation grade is specified in the technical datasheet. Follow the approved application procedure using Primer EP HT.
Typical Total Thickness (Type S)	2,6 mm
Configuration	3-layer system with TEKCOAT Primer EP HT
Pipe Size Range	DN 30 to DN 3000 according to the product datasheet; confirm the actual outside diameter (OD, mm/in.) for product selection and ordering.
Shelf Life	Guaranteed for a minimum of 60 months from the date of manufacture when stored in the original unopened packaging at temperatures $\leq +50$ °C in a dry environment.

TEKCOAT EPOXY PRIMERS

TEKCOAT Primers form the bonding layer between the prepared steel surface and TEKCOAT hot-melt heat-shrink sleeves. Their heat-assisted curing enhances substrate preparation while improving adhesion, resistance to cathodic disbondment, and the long-term durability of 3-layer coating systems.



Characteristic	Primer EP	Primer EP HT
Primary Application	HTS systems up to +90 °C	HTS 100 system up to +100 °C
Type	Two-component, solvent-free epoxy	Two-component, solvent-free high-build epoxy
Recommended Minimum Dry Film Thickness	30 µm	200 µm
Pot Life at +23 °C	Aprox. 20 min	Aprox. 20 min
Typical Coverage	198 g/m ² at 100 µm	415 g/m ² for >200 µm
Application Method	Manual or machine application	Manual application, single coat
Shelf Life	Guaranteed for a minimum of 24 months when stored at +5 to +30 °C in the original unopened container in a dry environment.	Guaranteed for a minimum of 24 months when stored at +5 to +30 °C in the original unopened container in a dry environment.

Key Benefits

- Excellent resistance to cathodic disbondment.
- Fast curing and easy application.
- Compatible with PE, PP, FBE, PU, CTE, and bitumen coating systems.
- Available in application kits and bulk packaging.

TEKCOAT Petrolatum Tapes are cold-applied corrosion protection systems designed to conform to irregular surfaces, valves, flanges, fittings, and pipelines. Their excellent wetting characteristics displace moisture, fill surface irregularities, and create a continuous, long-lasting anti-corrosion barrier.

TECHNOLOGY ADVANTAGES

- Simple manual application with no specialized equipment required.
- Excellent conformity to irregular and complex geometries.
- Solvent-free, low-odor formulations.
- Outstanding resistance to acids, salts, and alkaline compounds.
- Compatible with PE and PVC mechanical protection tapes.
- Operating temperature ranges from -40 °C to +100 °C, depending on the product.

SELECTION BY OPERATING TEMPERATURE

Product	Operating Temperature Range	Key Feature	Recommended Application
Tape ST	-40 to +45 °C	Low-temperature flexibility	Cold climates and general-purpose applications
Tape ET	-40 to +70 °C	High-temperature stability	Warm climates with an excellent cost-to-performance ratio
Tape HT	-40 to +100 °C	Maximum thermal resistance	Wet surfaces and complex geometries



Flexible Multi-Purpose Petrolatum Tape for Cold Climates

Reliable cold-applied corrosion protection for service temperatures from -40 °C to +45 °C, offering excellent conformity to complex geometries.

Description

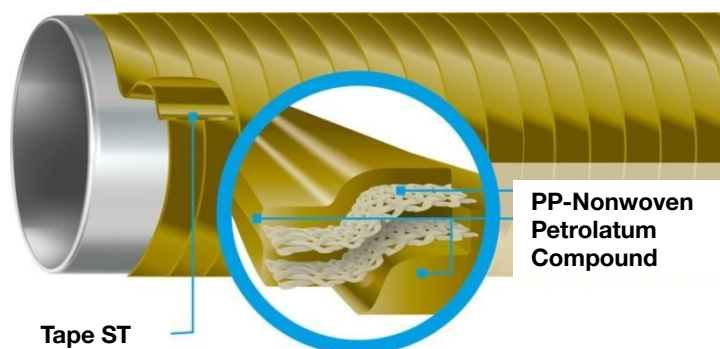
TEKCOAT Tape ST is a cold-applied petrolatum tape consisting of a polypropylene nonwoven carrier impregnated with a corrosion-inhibiting petrolatum compound. Its formulation provides excellent conformability and surface wetting, even at low temperatures.

The tape is designed to protect pipelines, valves, flanges, fittings, and other steel components. It can be used together with TEKCOAT Petrolatum Mastic to fill surface irregularities and with PE or PVC outerwrap tapes to provide additional mechanical protection.

Its solvent-free and low-odor formulation improves application conditions for both personnel and the surrounding environment.

Key Benefits

- Excellent flexibility and conformability at low temperatures.
- Solvent-free formulation.
- Outstanding resistance to acids, salts, and alkalis.
- Excellent cost-to-performance ratio.



Recommended Applications

- Valves, flanges, fittings, and steel pipelines.
- Installations in cold climates or on components with irregular geometries.

Technical Specifications

Parameter	Value / Range
Operating Temperature	-40 to +45 °C
Application Temperature	+5 to +45 °C
Standards	Selected properties tested in accordance with EN 12068; AWWA and ASTM D149 are also referenced. The technical datasheet does not specify an overall EN 12068 classification.
Surface Preparation	Manual cleaning and conditioning with TEKCOAT Petrolatum Mastic where required. No specific St or Sa preparation grade is specified.
Tape Thickness	1,15 mm
Carrier	Polypropylene nonwoven
Standard Sizes	50, 100, and 150 mm × 10 m
Shelf Life	Guaranteed for a minimum of 60 months from the date of manufacture when stored in the original unopened packaging at temperatures ≤ +35 °C in a dry environment.

Multi-Purpose Stabilized Petrolatum Tape for Warm Climates

Cost-effective corrosion protection for service temperatures from -40 °C to +70 °C, offering excellent thermal stability, high chemical resistance, and easy cold application.

Description

TEKCOAT Tape ET consists of a polypropylene nonwoven carrier impregnated with a thermally stabilized petrolatum compound designed to maintain its performance in warm and hot environments.

The tape readily conforms to steel pipelines, valves, flanges, fittings, and other metallic components. Its formulation provides excellent resistance to acids, salts, and alkaline compounds.

For enhanced protection, it can be combined with TEKCOAT Petrolatum Mastic to fill surface irregularities and with PE or PVC outerwrap tapes to create a sealed, impact-resistant mechanical protection system.

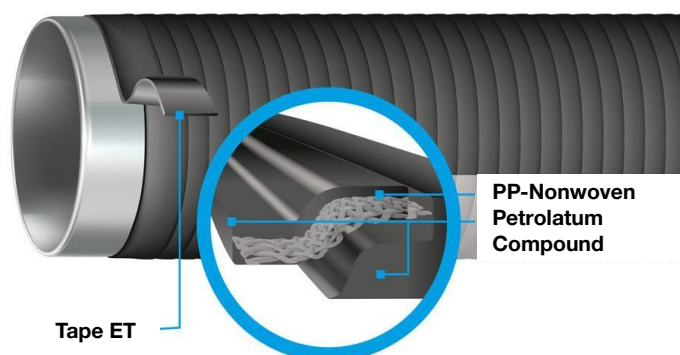
Key Benefits

- Operating temperature range from -40 °C to +70 °C.
- High resistance to flow and dripping at elevated temperatures.
- Solvent-free formulation.
- Excellent cost-to-performance ratio.

Recommended Applications

- Industrial installations in warm and hot climates.
- Protection of valves, flanges, pipelines, and fittings.

Technical Specifications



Parameter	Value / Range
Operating Temperature	-40 to +70 °C
Application Temperature	+5 to +55 °C
Standards	Selected properties tested in accordance with EN 12068; AWWA and ASTM D149 are also referenced. The technical datasheet does not specify an overall EN 12068 classification.
Surface Preparation	Manual cleaning and conditioning with TEKCOAT Petrolatum Mastic where required. No specific St or Sa preparation grade is specified.
Tape Thickness	≥ 1,1 mm
Mastic Drop Point	≥ +100 °C
Standard Sizes	50, 100, and 150 mm × 10 m
Shelf Life	Guaranteed for a minimum of 60 months from the date of manufacture when stored in the original unopened packaging at temperatures ≤ +50 °C in a dry environment.

High-Temperature Petrolatum Tape for Continuous Service up to +100 °C

Maximum thermal protection for continuous operating temperatures up to +100 °C, including application on wet substrates when used with TEKCOAT Primer AQ HT.

Description

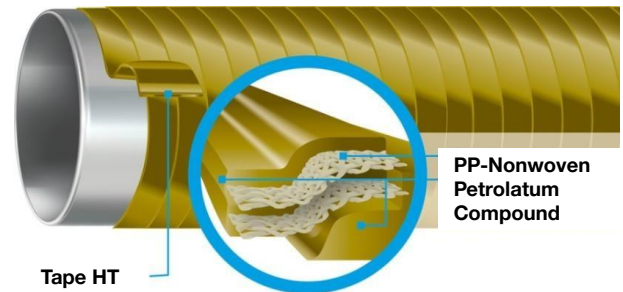
TEKCOAT Tape HT consists of a durable textile carrier impregnated with a high-temperature petrolatum compound featuring an elevated drop point. This formulation maintains excellent adhesion at high temperatures, allowing continuous service up to +100 °C, with short-term temperature excursions of up to +110 °C.

The tape readily conforms to irregular geometries and requires only wire-brush cleaning before application. When used together with TEKCOAT Primer AQ HT, it is particularly suitable for application on wet steel surfaces.

For enhanced mechanical protection, the system can be finished with a compatible outer wrap or mechanical protection tape.

Key Benefits

- Operating temperature range from -40 °C to +100 °C.
- Complies with EN 12068-A100 and ISO 21809-3 Type 11A.
- Suitable for wet substrates when used with TEKCOAT Primer AQ HT.
- Simple application on flanges, valves, and other complex geometries.



Recommended Applications

- Wet steel surfaces.
- High-temperature valves and flanges.
- Process installations with complex geometries.

Technical Specifications

Parameter	Value / Range
Continuous Operating Temperature	-40 a +100 °C
Short-Term Temperature Peaks	Up to +110 °C
Application Temperature	+5 to +50 °C
Surface Preparation	Wire-brush cleaning. No specific St or Sa preparation grade is specified in the technical datasheet. For wet substrates, use TEKCOAT Primer AQ HT.
Tape Thickness	> 2,0 mm
Standard Sizes	50, 100, and 150 mm × 10 m
Shelf Life	Guaranteed for a minimum of 60 months from the date of manufacture when stored in the original unopened packaging at temperatures ≤ +40 °C in a dry environment.

REPAIR THE COATING OR RESTORE STRUCTURAL INTEGRITY

Not all pipeline damage requires the same corrective action. TEKCOAT distinguishes between localized repair of the anti-corrosion coating and structural reinforcement of pipelines affected by wall loss.

Requirement	System	Result
Damage to the factory-applied coating with no significant loss of structural integrity	TEKCOAT Repair REP MT	Restores the anti-corrosion barrier using a filler material and a heat-shrink repair patch.
Wall thickness loss due to corrosion or erosion, without active leakage	TEKCOAT Expand CF70	Restores the pipeline's structural capacity using profiling mastic, primer, carbon fiber fabric, and structural resin.

Before selecting the appropriate system, the type of damage, remaining wall thickness, operating pressure, temperature, component geometry, and service conditions should be evaluated.

Application Principles

- Inspect and define the extent of the damaged area.
- Prepare the surface in accordance with the applicable installation procedure.
- Fill surface irregularities and eliminate voids.
- Apply the selected system while controlling overlaps, coating thickness, and curing conditions.
- Perform final inspection and document the completed repair.



Localized Repair System for Factory-Applied Anti-Corrosion Coatings

Designed to repair damage caused during transportation, storage, or installation, delivering high-quality restoration without the need for specialized equipment.

Description

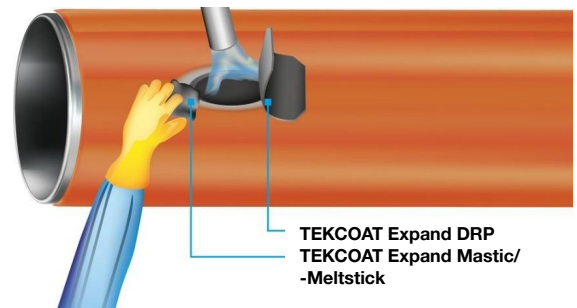
TEKCOAT Repair REP MT is designed to restore localized damage to factory-applied anti-corrosion coatings. The damaged area is first filled flush using TEKCOAT Expand Mastic or TEKCOAT Meltstick, then sealed with the TEKCOAT Expand DRP heat-shrink repair patch.

The repair patch combines a cross-linked polyethylene backing with a high-performance hot-melt adhesive, providing excellent peel strength and shear resistance. The system offers fast, cost-effective installation and is compatible with the most common factory-applied coating systems.

TEKCOAT Repair REP MT is intended for coating systems manufactured in accordance with ISO 21809-1 and ISO 21809-3.

Key Benefits

- High-quality repair of localized coating damage.
- Fast installation without specialized tools.
- Excellent tensile strength and chemical resistance.
- Reliable protection against moisture ingress and corrosion.



Recommended Applications

- Repair of coating damage caused during transportation and handling.
- Installation-related defects on PE-coated pipelines and compatible coating systems.
- Localized repairs where no structural reinforcement is required.

Technical Specifications

Parameter	Value / Range
Design Temperature	Up to 85 °C, depending on system configuration and project requirements
DRP Operating Temperature Range	-40 to +80 °C
Total DRP Thickness	1,8 mm
Peel Strength on PE at +23 °C	> 50 N/cm
System Components	Expand DRP + Expand Mastic or Meltstick
Surface Preparation	Surface preparation shall follow the applicable repair procedure and the requirements of the existing coating system. No specific St or Sa preparation grade is specified in the technical datasheet.
Shelf Life	Guaranteed for a minimum of 60 months from the date of manufacture when stored in the original unopened packaging at temperatures < +50 °C in a dry environment.

Structural Repair System Using Carbon Composite Materials

Restores the structural integrity of pipelines affected by corrosion or erosion, allowing permanent repairs while the pipeline remains in service, without interrupting operation.

Description

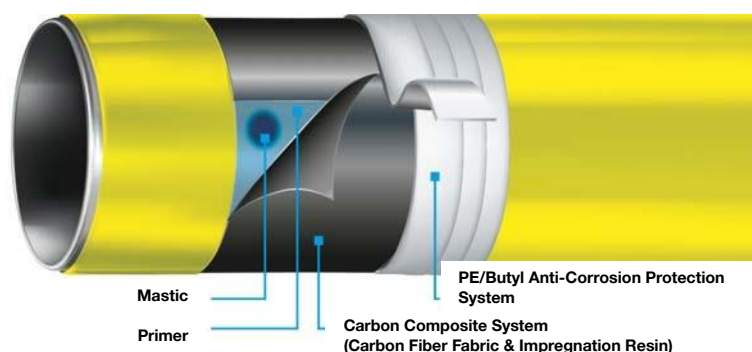
TEKCOAT Expand CF70 is a structural reinforcement system designed for pipelines with diameters of 2 inches (DN 50) and above. The system combines a profiling mastic, epoxy primer, bidirectional carbon fiber fabric, and a structural impregnation resin.

The profiling mastic restores the original profile by filling areas of metal loss; the epoxy primer ensures effective load transfer to the steel substrate; the carbon fiber fabric provides circumferential and axial reinforcement; and the structural resin uniformly distributes the applied loads throughout the repair.

Each repair is individually engineered based on the defect geometry, remaining wall thickness, operating pressure, and service temperature. The system is intended as a permanent repair solution for weakened pipeline sections but is not designed to seal active leaks.

Key Benefits

- Restores the structural integrity of damaged pipelines.
- Can be installed while the pipeline remains in operation, eliminating shutdown requirements.
- Suitable for offshore environments due to its excellent resistance to seawater exposure.
- Project-specific repair kits engineered for each



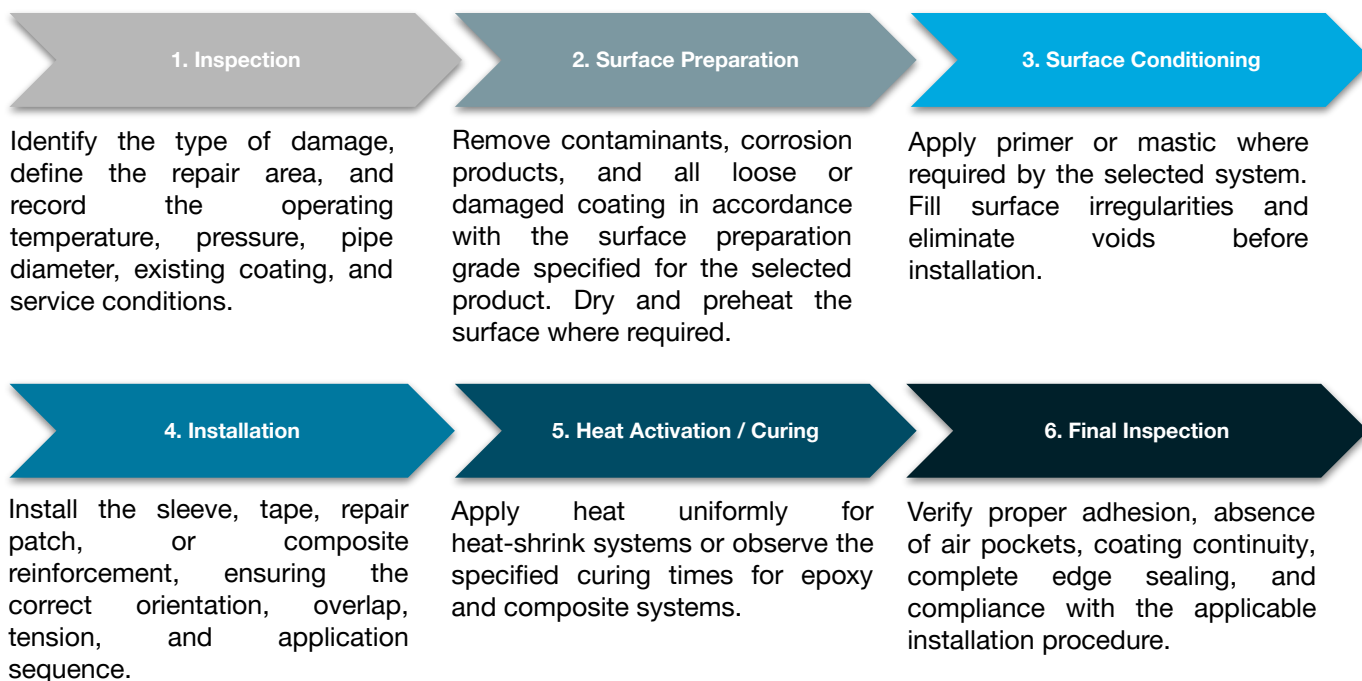
Recommended Applications

- External corrosion or erosion resulting in wall thickness loss.
- Onshore and offshore steel pipelines.
- Permanent structural repairs where no active leak is present.

Technical Specifications

Parameter	Value / Range
Maximum Operating Temperature	+70 °C (+158 °F)
Minimum Pipe Size	≥ 2 in. (≥ DN 50). For engineering, kit selection, and supply, the actual outside diameter (OD) must be confirmed.
Minimum Diameter	2 in. / DN 50
Minimum Remaining Wall Thickness	At least 20% of the original wall thickness
Reference Standard	ISO/TS 24817:2006
Surface Preparation	Surface preparation shall follow the approved repair procedure and the project-specific engineering design. No specific St or Sa preparation grade is specified in the technical datasheet.
Installation	To be carried out by qualified and certified personnel.
Shelf Life	Guaranteed for a minimum of 12 months from the date of manufacture when stored in the original unopened packaging at +5 to +30 °C in a dry environment.

GENERAL APPLICATION PROCEDURE



CRITICAL APPLICATION POINTS

- Do not substitute the specified surface preparation with a lower preparation grade.
- Monitor the steel surface temperature, not only the flame or ambient air temperature.
- Avoid overheating, sleeve scorching, and air entrapment.
- Use the specified closure patch and accessories designed for each sleeve system.
- Record the product batch number, installation date, installer, environmental conditions, and inspection results.

Installation shall be carried out by trained personnel using appropriate personal protective equipment (PPE) and in accordance with the applicable product technical data sheet and approved installation procedure.

The TEKCOAT product range includes systems that have been tested and/or classified in accordance with EN 12068, ISO 21809-3, ISO 21809-1, and ISO/TS 24817, depending on the product function and system configuration. Standard designations should always be referenced together with the specific product and its corresponding test temperature.

Standard	Application in This Catalogue
EN 12068	External organic coatings for the corrosion protection of buried or submerged steel pipelines.
ISO 21809-3	Field joint coatings for pipelines used in pipeline transportation systems.
ISO 21809-1	Factory-applied three-layer polyolefin coating systems.
ISO/TS 24817	Qualification and application of composite repair systems for pipelines.

COMPATIBILITY

Depending on the product, TEKCOAT systems are compatible with factory-applied PE, PP, FBE, PU, CTE, and bitumen coatings. Compatibility with a specific coating system should always be verified against the relevant product technical data sheet and the project specification.

SUMINISTRO Y ALMACENAMIENTO

- Available as pre-fabricated sleeves or master rolls, supplied with the appropriate closure patches according to the selected system.
- Additional sleeve widths and pipe diameter ranges are available upon request.
- Primers are supplied in pouch kits, small containers, or bulk packaging.
- Structural repair systems are supplied as project-specific engineered kits.
- Always store products in their original unopened packaging, in a dry environment, and within the specified storage temperature range.





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