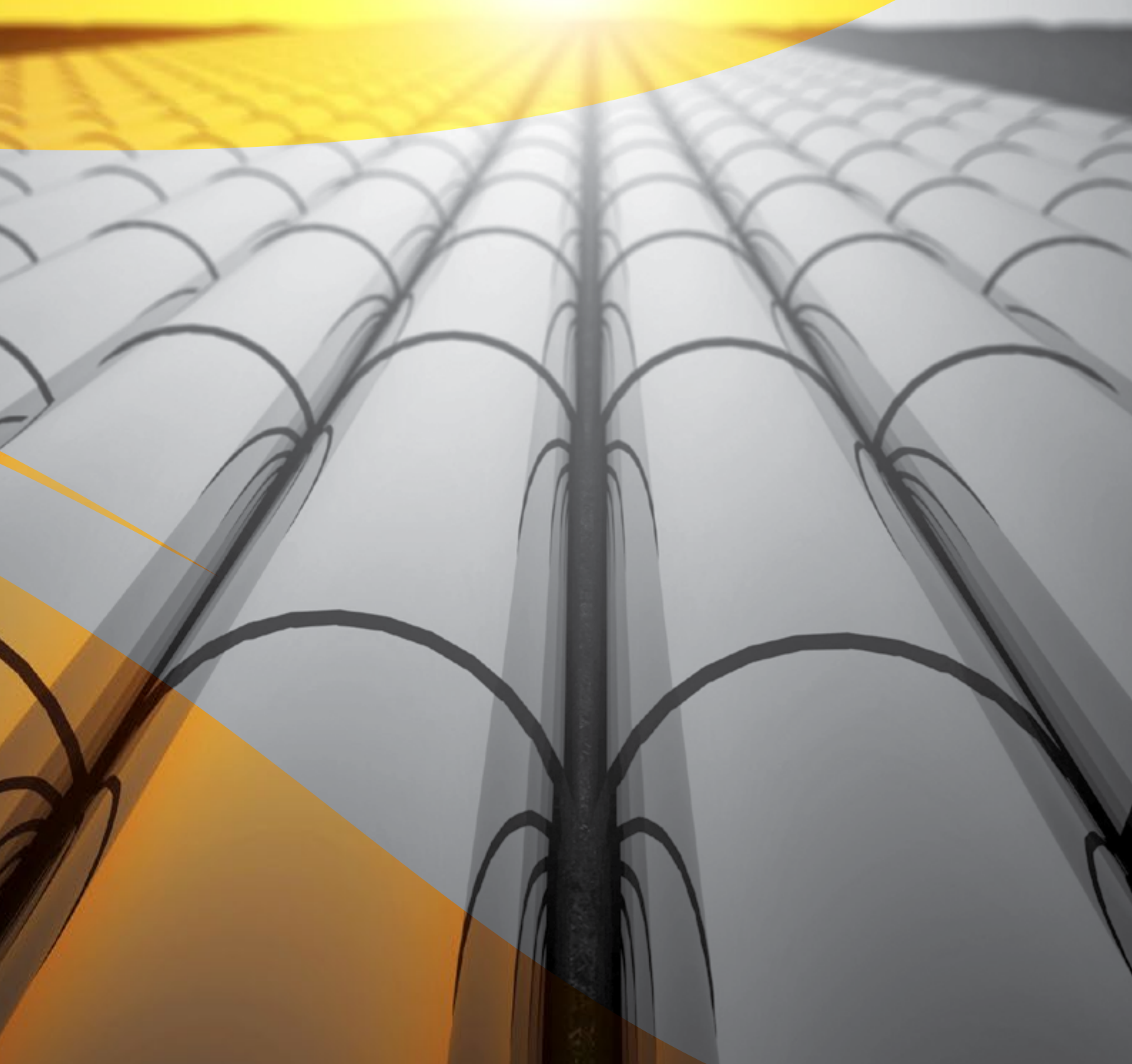




SALAFCHEGAN PIPE & PROTECTION CO.



Introduction to the Company

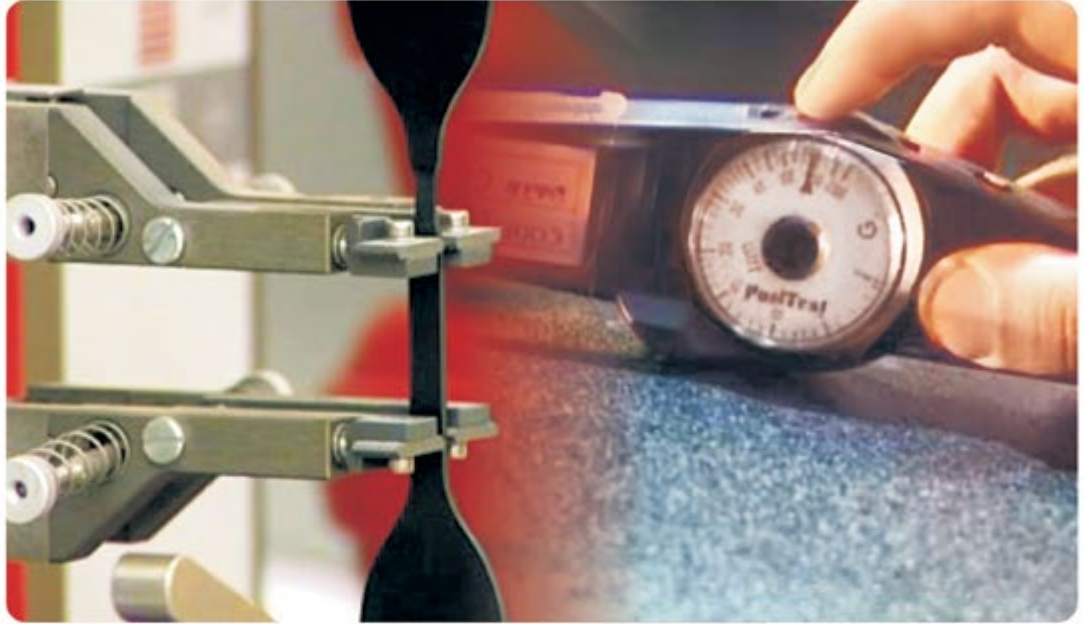
SPPC provides tubular products and corrosion protection products & services to the oil, gas, petrochemical and water industries. The company's pipe mill and coating plant are located in the Salafchegan Industrial Zone, 200 km south of Tehran in central Iran.

SPPC together with its sister company, MPPC (Mahshahr Pipe Protection Co.) set the benchmark for the country's pipe manufacturing and coating industry.

A diverse product range, punctuality, and superior quality are among SPPC's differentiating characteristics. All of SPPC's plants are equipped with the latest pipe and coating technologies available from around the world.

SALAFCHEGAN PIPE & PROTECTION CO.
www.sppc.ir





Commitment to Quality and Specifications

SPPC's quality policy is that quality begins with the production operator; therefore, our operators are fully trained to ensure the ongoing quality requirements of production.

The company's quality control department performs routine checks of the process to ensure conformance with essential standards and the customers' requirements. SPPC's fully equipped laboratory perform the required testing of raw materials and finished products. The company often goes beyond the requirements of standards to ensure customers receive a quality coating and quality pipe.



Geographic Location & Easy Logistics

SPPC's proximity to Iran's major highways and railroads offers both convenience and cost-savings to customers.

SPPC's packaged offering of HSAW pipe along with coating presents a significant cost -advantage for clients.

Mahshahr Pipe Protection Company (MPPC), which is SPPC's sister company offers similar coating systems to that of SPPC.

MPPC's plant is located in the Mahshahr Special Economic Zone near the port of Imam Khomeini on the shores of the Persian Gulf in southern Iran.



Health, Safety and Environment

SPPC has made the health and safety of its employees and customers a cornerstone of its work ethic. The SPPC plant is designed to maximize the safety of all visitors and employees. SPPC's product line and application methods ensure proper respect for the environment.



The company does not offer coating products which are hazardous for people and the environment.

The plant also keeps a very tight control on its by-products and ensures that they are either recycled elsewhere or properly disposed of in a safe and environmentally-friendly manner.



Diverse Pipe and Coating Systems



SPPC offers the most extensive and diverse product line in the pipe coating industry. The plant offers over 30 different coating products and services which include the following general categories:

- External Anti-Corrosion Pipe Coatings
- Internal Pipe Coatings
- High-Temperature Coatings and Thermal Insulation Coatings
- Custom Coating of Non-Tubular Products

SPPC also offers a diverse offering in terms of helical submerged arc welded (HSAW) pipe that can be used in the following categories:

- Oil and Gas Transmission Lines
- Water Transport Pipelines
- Structural Pipes and Offshore Piling

Certifications and Approvals

SPPC possesses the following certifications, memberships, and approvals:

ISO 9001: 2015 "Quality Assurance Certification"

ISO 14001: 2015 "Environmental Management Certification"

ISO 45001: 2018 "Occupational, Health and Safety Certification"

OHSAS 18001: 2007 "Occupational, Health and Safety Certification"

R&D Certification from the Ministry of Industry.

Recognition as a "National First Degree Manufacturer" by the Oil Ministry.

Steel Pipe Mills and Coating Association (SPACA)

Society of Iranian Petroleum Industry Equipment Manufacturers (SIPIEM)

Iranian Society of Engineering Design and Assembly

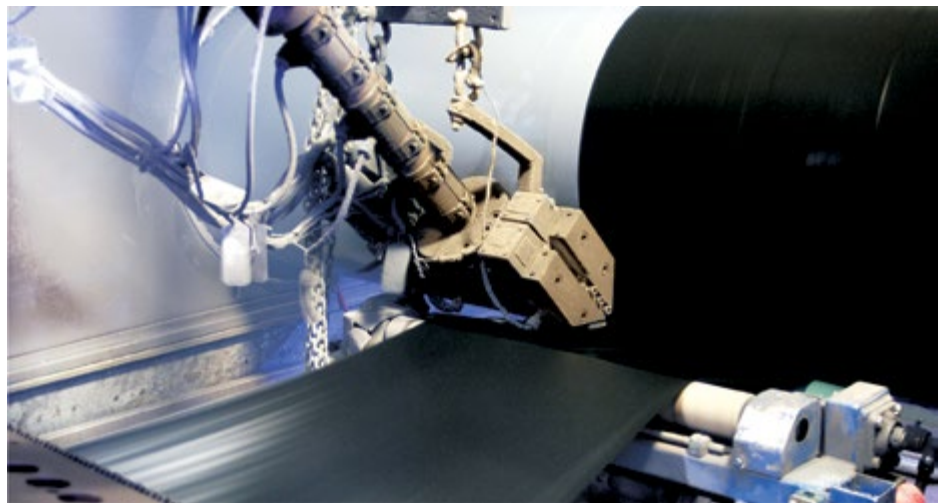
Iran Industrial Equipment Manufacturers Association (SATSA)





Flexibility in Pipe Production and Coating Application

SPPC's philosophy is that any steel object can be coated with any coating system. The complement of the company's pipe coating plants and custom coating shop allows SPPC to coat virtually any size of pipe ranging from ½ inch to 120 inches diameter with virtually any of the company's offered coating systems. The plant's custom coating shop can coat any non-tubular steel component such as fittings, valves, t-joints and spools with the same variety of internal and external coatings.



SPPC's HSAW pipe mill can produce pipes for both oil and gas pipelines as well as water transmission lines and structural pipes in sizes ranging from 6" (152.4 mm) to 120" (3048 mm) in a variety of thicknesses.



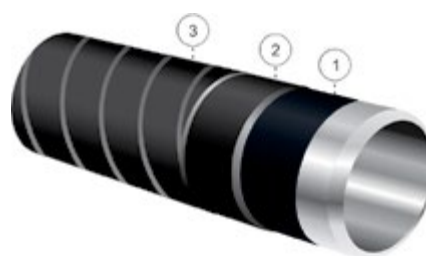


COATING
»»» PRODUCTS

EXTERNAL COATINGS

1. Bituseal® Coating System

Bituseal® is a polymer-modified bitumen coating system that offers both reliability and affordability to clients. Bituseal® has an excellent track record in gas, water and offshore pipelines. The Bituseal® pipe coating system is applied under the license of Phoenix International A/S.



1. BITUSEAL® Primer
2. BITUSEAL® Enamel
3. BITUSEAL® Outerwrap

2. Reinforced Bituseal® Coating System

Reinforced Bituseal® is a version of the Bituseal® system that possesses added mechanical resistance. A stabilized polypropylene jacket enhances Bituseal®'s mechanical properties.



1. BITUSEAL® Primer
2. BITUSEAL® Enamel
3. BITUSEAL® Outerwrap
4. PP Jacket

3. Fusion-Bonded Epoxy (FBE)

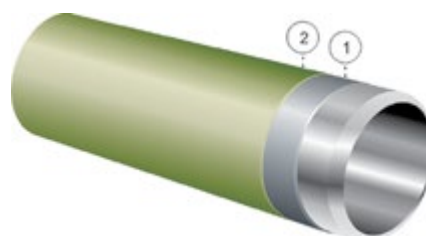
FBE is a high quality corrosion protection system that offers exceptional adhesion to steel surfaces along with excellent compatibility with cathodic protection systems. FBE coating systems can be applied on pipelines with service temperatures as high as 155 °C.



1. Fusion-Bonded Epoxy

4. Dual Layer Fusion-Bonded Epoxy (DL-FBE)

Dual layer FBE is a state of the art coating system that offers the same excellent adhesion and compatibility to cathodic protection systems that single layer FBE offers with the added benefit of enhanced corrosion protection and mechanical resistance.

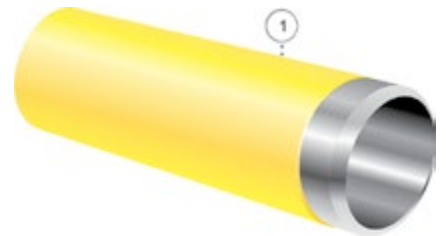


1. Anti-Corrosion FBE Coating
2. Mechanical and Abrasion Resistant FBE Overcoat

EXTERNAL COATINGS

5. Low Application Temperature FBE

Low Application Temperature Fusion Bond Epoxy (LAT-FBE) is an FBE powder coating system for special pipeline designs that requires a low application temperature. LAT-FBE is also suitable for high temperature applications.



1. Low Temperature FBE

6. Three-Layer Polyethylene (3LPE)

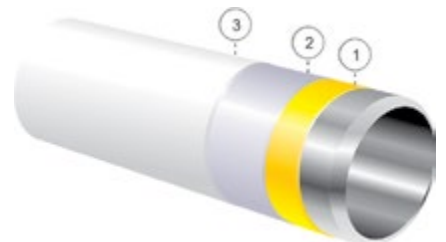
The 3LPE System is a multilayer coating composed of FBE, co-polymer adhesive, and high density polyethylene. 3LPE system provides good pipeline protection for both small and large diameter pipelines with different operating temperatures.



1. FBE
2. Copolymer Adhesive
3. High-Density PE

7. Three-Layer Polypropylene (3LPP)

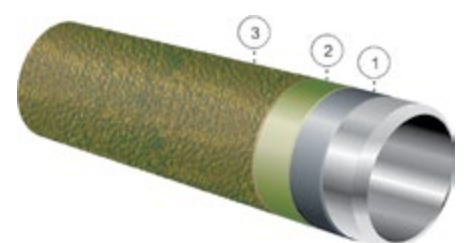
The 3LPP System is a multilayer coating composed of FBE, co-polymer adhesive, and polypropylene. 3LPP system provides good pipeline protection and added mechanical protection for both small and large diameter pipelines with different operating temperatures.



1. FBE
2. Copolymer Adhesive
3. PP

8. Multi-Layer FBE Coating for Casings & Tubing

The FBE coating for casings and tubings is a multi-layer powder epoxy system specifically formulated for the external coating of casings & tubings. The system offers a combination of corrosion resistance, flexibility, gouge-resistance, and adhesion to cement. The system greatly enhances the longevity of casings used in hydrocarbon wells.



1. First FBE LAYER
2. Gouge-Resistance FBE Layer
3. Top-Coat Layer

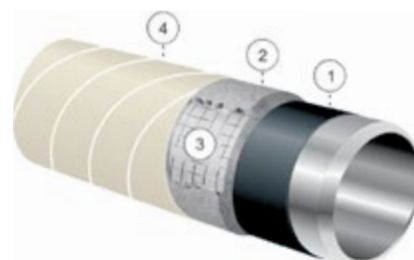
EXTERNAL COATINGS

9. Rockguard®

(Offered at MPPC)

Rockguard® is a “bendable” plant applied reinforced concrete pipe coating developed for rocky terrain, rough terrain configurations such as slopes and for road and river crossings. Rockguard® offers excellent mechanical protection for the anti-corrosion coating and the steel pipe of onshore pipelines.

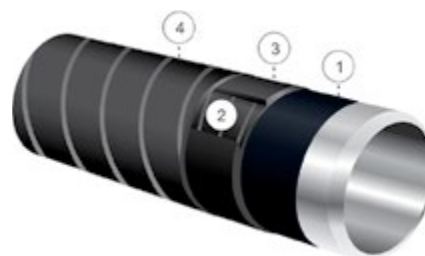
1. Anti-Corrosion Coating
2. Wrap-on Concrete
3. Reinforcing Wire Mesh
4. PE Outer Wrap



10. Oxidized Bitumen Enamel

Bitumen enamel is a plant applied dural coating based on oxidized bitumen that has been used for many years of corrosion protection of steel pipes.

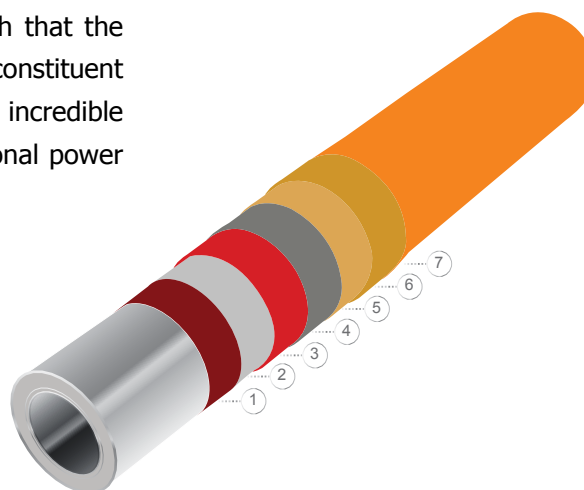
1. Synthetic Primer
2. Inner Wrap
3. Bitumen Enamel
4. Outerwrap



11. Phoenix Multiplex® Pipe Coating System

The unique Phoenix Multiplex® pipe coating system represents a revolutionary new innovative concept in multi-layer power coating of steel pipes. The Phoenix Multiplex® is the culmination of years of research and development along with field applied tests. The Phoenix Multiplex® system is a combination of different coating layers each with significant features that complement each other such that the combined system is a significant improvement over its constituent components. A special feature of this coating system is its incredible resistance to impact damage when compared to conventional power coatings.

1. Primer Layer (70 μ)
2. Corrosion Protection Layer (200 μ)
3. Corrosion/Impact Resistant Layer (200 μ)
4. Impact/Gouge Resistant Layer (200 μ)
5. Gouge/Abrasion Resistant Layer (200 μ)
6. Water Tight Layer (50-70 μ)
7. UV-Resistant/Anti-Weathering Layer (50-70 μ)



EXTERNAL COATINGS

12. Tri-Layer FBE (TL-FBE) and Quad-Layer FBE (QL-FBE)

Epoxy powders, particularly Zinc-FBE powders offers some of the most reliable and proven corrosion protection systems in the industry. Polyester powders, which are applied as a top-coat on powder epoxy systems provide enhanced ultra-violet protection. Combined epoxy and polyester coating systems are an excellent solution for both exposed and underground pipelines and structures.

1. Anti-Corrosion FBE
2. Gouge-Resistant FBE
3. UV Resistant Polyester Overcoat

1. Zinc FBE Primer
2. Anti-Corrosion FBE
3. Gouge-Resistant FBE
4. UV Resistant Polyester Overcoat

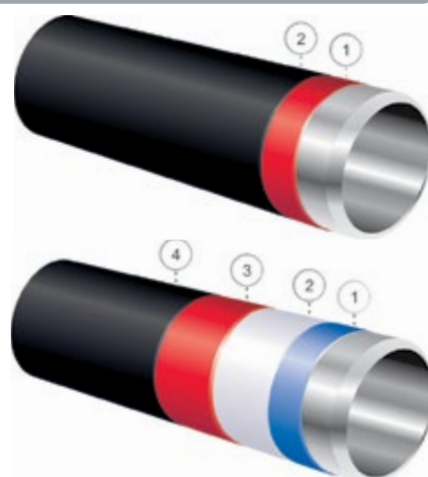


13. Polyurea, Liquid Epoxy, and Polyurethane Coatings for Exposed

These two component systems can be applied to a wide range of pipes, fittings, and steel structures. They can also be plant-applied in different multi-layer versions so as to enhance to combined features of the coating system.

1. Liquid Epoxy
2. PU Top Coat

1. Inorganic Zinc
2. Tie-Coat
3. Liquid Epoxy
4. PU Top Coat

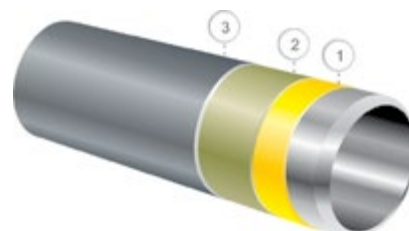


14. Polyester Coating System/PU + DL FBE

Dual-layer FBE + PU is a coating system that combines the excellent corrosion protection properties of fusion-bonded epoxy with the mechanical resistance of gouge resistant FBE and polyurethane or polyester.

A layer of either special grade powder polyester or powder polyurethane is electrostatically applied along with the dual layer FBE underneath. A layer of solid polyurethane can also be sprayed as a replacement for the top powder polyester or powder polyurethane layers, if required.

1. Anti-Corrosion FBE Coating
2. Gouge-Resistant FBE Coating
3. Powder Polyurethane or Powder Polyester

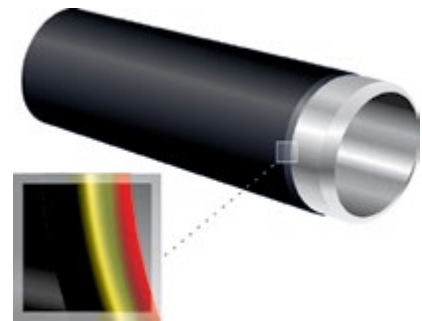


EXTERNAL COATINGS

15. Four Component Composite Coating (4CCC)

Four component composite coating is a new generation coating system that provides excellent adhesion to the steel surface combined with very robust mechanical protection. The systems four components consist of two different types of fusion-bonded epoxy, hybrid thermoset/thermoplast powder, and powder polyethylene. The different components are fused together into a consistent continuous system that will not laminate. This advanced coating system offers excellent protection for both small diameter and large diameter pipes. The product also possesses excellent resistance to cathodic disbondment due to the special properties of its components and its unique application method.

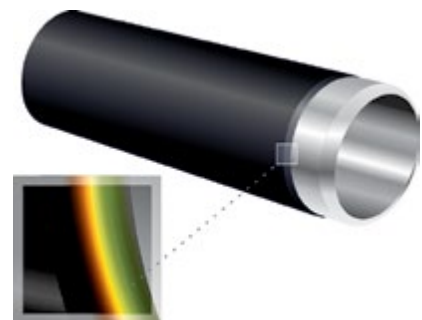
- | | |
|-------------------------|--|
| 1. First FBE Component | 3. Hybrid Thermoset/Thermoplast Powder |
| 2. Second FBE Component | 4. Powder Polyethylene |



16. Five Component Composite Coating (5CCC)

Five component composite coating is a variation of four component composite coating. Five component composite coating is a new generation coating system that provides excellent adhesion to the steel surface combined with very robust mechanical protection. The system's five components consist of three different types of fusion-bonded epoxy, hybrid thermoset/thermoplast powder, and powder polyethylene. The different components are fused together into a consistent continuous system that will not laminate. This advanced coating system offers excellent protection for both medium diameter and large diameter pipes. The product also possesses excellent resistance to cathodic disbondment due to the special properties of its components and its unique application method.

- | | |
|-------------------------|--|
| 1. First FBE Component | 4. Hybrid Thermoset/Thermoplast Powder |
| 2. Second FBE Component | 5. Powder Polyethylene |
| 3. Third FBE Component | |

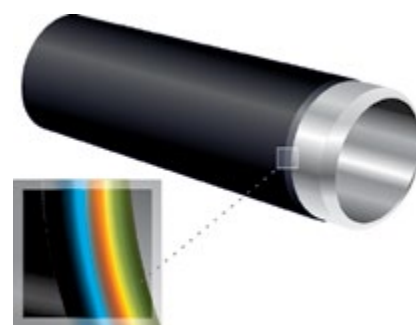


EXTERNAL COATINGS

17. Six Component Composite Coating (6CCC)

Six component composite coating is similar to 5CCC in that it is a new generation coating system that provides excellent adhesion to the steel surface but with extra mechanical protection. Such added mechanical protection may be needed in situations where the pipe outer diameter is over 96" or where the pipe is to be laid in extremely rugged terrain. The systems six components consist of three different types of fusion-bonded epoxy, hybrid thermoset/thermoplast powder, and two different types of polyethylene. The different components are fused together into a consistent continuous system that will not laminate. Highly advanced application techniques similar to 4CCC and 5CCC are used to apply this product.

1. First FBE Component
2. Second FBE Component
3. Third FBE Component
4. Hybrid Thermoset/Thermoplast Powder
5. First Powder Polyethylene
6. Second Powder Polyethylene



INTERNAL COATINGS

1. Internal FBE Coating for Drill Pipes

This coating is a specially designed epoxy powder system used for internally coating drill pipes. The highly corrosion and abrasion-resistant characteristic of the product is used to protect the internal surface of drill pipes from drilling mud and other corrosive and abrasive materials.



1. Special Purpose Phenolic Primer
2. Internal FBE Coating

2. Internal FBE Coating for Sour Service Pipelines

This coating is a specially designed epoxy powder system used for internally coating sour fluid lines that contains hydrogen sulfide, carbon dioxide or other highly corrosive substances. Internal FBEs are the only coating solution with a proven track record and undisputed history in protecting the internal surfaces of steel pipelines from the highly corrosive effects of sour gas and sour crude.



1. Special Purpose Phenolic Primer
2. Internal FBE Coating

3. Internal FBE Coating for Crude Oil Lines

This coating is a specially designed epoxy powder coating system used for internally coating crude oil lines. This coating not only protects the internal surface of the pipeline from corrosion, but it also greatly enhances the flow-efficiency within the pipeline and increases the design life of the pipeline.



1. Phenolic Primer
2. Internal FBE Coating

4. Cement Mortar Lining

Cement Mortar Lining (CML) is a continuous lining of dense portland cement mortar with a uniform finish. This product is used as an economical lining for water pipelines, but should not be specified for lines where hammer conditions or fluid pH below six (acidic condition) exist.



1. Cement Lining

INTERNAL COATINGS

5. Internal FBE Coating for Tubings

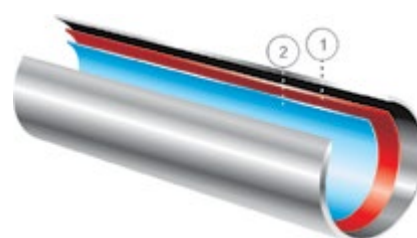
This coating is specially designed epoxy powder coating system used for internally coating the steel tubing and production casing of oil and gas wells. This coating not only protects the internal surface of the pipeline from corrosion, but it also greatly increases the flow efficiency of hydrocarbons through the well.



1. Phenolic Primer
2. Internal FBE Coating

6. Internal FBE Flow & Anti-Corrosion Coating

Flow and anti-corrosion internal coating is a specially designed epoxy powder system used for internally coating general purpose hydrocarbon lines. This coating system offers increased longevity through corrosion protection and increased flow efficiency at an affordable cost.



1. Phenolic Primer
2. Internal FBE Coating

7. Internal FBE Coating for Sea Water & Saline Water Pipelines

This internal coating is a special-purpose FBE that is used for sea water and saline water pipeline. The wet nature of these materials creates a corrosive environment in which this coating offers superb protection.



1. Primer Layer
2. Internal FBE Coating

8. Internal FBE Coating for Waste Water Pipelines

This internal coating is a special-purpose FBE that is used for brackish water waste-water pipelines. Due to potential hydrogen sulfide and carbon dioxide contamination, brackish water requires a resilient and reliable coating that protects the steel surface for which this coating is ideally suited.



1. Special Purpose Phenolic Primer
2. Internal FBE Coating

INTERNAL COATINGS

9. Internal FBE Coating for Potable Water Pipelines

This internal coating is a highly reliable FBE that meets all the sanitary, health, safety and environmental requirements for potable water pipelines. The FBE formulation ensures that there is a highly cross-linked barrier between the steel surface and the potable water along with enhanced flow-efficiency within the water. The FBE coating system is also entirely free of any contaminants such as solvents or uncured material due to its special application method.

1. Internal FBE Coating



10. Internal Liquid Epoxy Flow Efficiency Coating

Liquid epoxy flow coats are a category of two-component thin film internal coatings which are spray-applied. These coatings are designed for the specific purpose of increasing flow-efficiency within the pipeline.

1. Liquid Epoxy Flow Efficiency Coating



11. Internal FBE Flow Efficiency Coating

FBE flow coats are a category of this film internal coatings. These coatings are designed for the specific purpose of increasing flow-efficiency within the pipeline. MPPC and SPPC have the greatest and longest experience in applying such products within the regional industry. FBE flow coats have the added benefit of corrosion protection for the internal surface of pipe.

1. Optional Primer
2. FBE Flow Efficiency Coating



12. Static Dissipating Epoxy Coating

This coating is a static dissipating epoxy ideal for internally coating pipelines and fittings used for transporting jet-fuel, aromatic materials or any other material that possesses a low flash-point. The coating offers a combination of features such as static dissipation, resistance to corrosion, and resistance to micro-organisms that ensures pipeline safety.

1. Static Dissipating Epoxy Coating



13. Internal Liquid Epoxy for Potable Water Pipelines

Liquid epoxy coating are a category of two-component internal coatings which are spray-applied for water pipelines. These coatings are factory-applied to a variety of different pipelines sizes.

1. Solvent-Free Liquid Epoxy Lining



HIGH TEMPERATURE COATINGS & THERMAL INSULATION COATINGS

1. High-Temperature FBE

High temperature fusion-bonded epoxies can be applied at different thicknesses both as stand-alone or multi-layer coatings. These products offer corrosion resistance in service temperatures as high as 155 °C.



1. Fusion Bonded Epoxy

2. Thermomax[®] (Multi-Layer PP for High-Temperature Lines)

(Offered at MPPC)

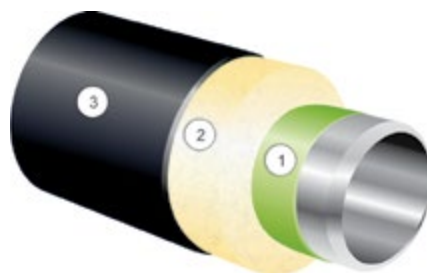
Thermomax[®] is an advanced multi-layer polypropylene insulation coating system designed for high temperature pipelines and offshore thermal insulation. The system can be tailored and designed in a variety of thicknesses and layers to meet specific requirements.



1. FBE
2. Adhesive
3. Solid PP
4. PP Foam
5. Outer PP Shield

3. Thermoguard[®] (FBE + PU Foam + PP Jacket)

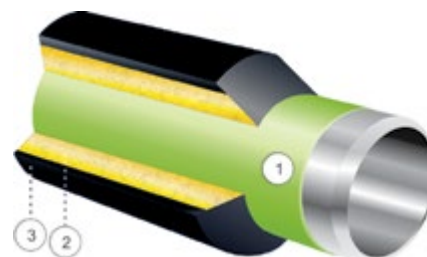
Thermoguard[®] is an integrated polyurethane foam and FBE-based corrosion and insulation system designed for the thermal insulation of pipelines. This system is suitable for buried pipelines; above-ground pipelines; oil, gas and water pipelines; and for both onshore and offshore applications.



1. FBE
2. PU Foam
3. PE or PP Jacket

4. Thermoseal[®] (FBE + PU Foam + PE With Sealed Ends)

Thermoseal[®] is an integrated PUF and FBE-based corrosion and insulation system designed for the thermal insulation of pipelines that possesses sealed ends which prevent permeation into the polyurethane foam of the coating system, thereby enhancing the reliability and integrity of the entire pipeline. This system is suitable for buried pipelines; above-ground pipelines; oil, gas and water pipelines; and for both onshore and offshore applications.



1. FBE
2. PU Foam Tapered at the Ends
3. PE or PP Jacket

CUSTOM COATING OF STEEL FITTINGS AND COMPONENTS

Custom coating is basically the external and internal coating of valves, t-joints, elbows, fittings, compressors, manifolds, spools, rebars, I-beams, H-beams, ... etc. Virtually any coating system applied on to pipes can be factory-applied on to fittings, including coating systems such as three-layer polyethylene and thermal insulation systems.



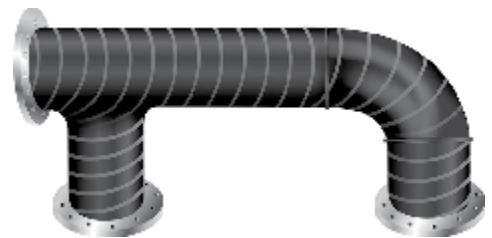
1. Internal FBE Coating



1. External Multi-Layer FBE
2. Internal FBE Coating



1. External 3LPE
2. Internal FBE Coating




1. External BitusealL® Coating



1. External 3LPE
2. Internal Liquid Epoxy Coating

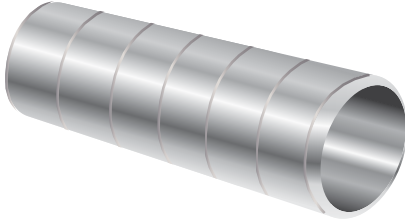


1. External High Temperature FBE
2. Internal FBE

 TUBULAR
PRODUCTS


HSAW PIPE FOR OIL & GAS PIPELINES

SPPC produces helical submerged arc welded (HSAW) pipe based on the production matrix listed below according to the following listed standards.



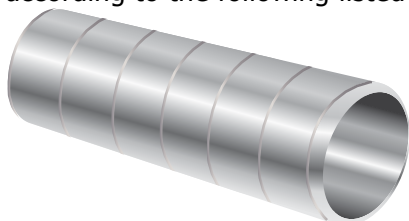
- API 5L: Specification for Line Pipe
- IPS-M-PI-190
- ISO 4200: Plain End Steel Tubes, Welded and Seamless-General Tables of Dimensions and Masses Per Unit Length

Pipe Diameter ↓		Wall Thickness															
		Inch	0.2	0.250	0.281	0.312	0.344	0.375	0.406	0.438	0.469	0.500	0.531	0.562	0.600	0.656	0.688
		mm	5.08	6.35	7.14	7.92	8.74	9.53	10.31	11.13	11.91	12.70	13.49	14.27	15.24	16.66	17.48
Inch	mm																
6	152.4																
8	203.2																
10	254.0																
12	304.8																
14	355.6																
16	406.4																
18	457.2																
20	508.0																
22	559.0																
24	609.6																
26	660.4																
28	711.2																
30	762.0																
32	812.8																
34	863.6																
36	914.4																
38	965.2																
40	1016.0																
42	1066.8																
44	1117.6																
46	1168.4																
48	1219.2																
50	1270.0																
52	1320.8																
56	1422.4																
60	1524.0																
64	1625.6																
68	1727.2																
72	1828.8																
76	1930.4																
80	2032.0																
84	2133.6																
88	2235.2																
92	2336.8																
96	2438.4																
104	2,641.6																
108	2,743.2																
112	2,844.8																
116	2,946.4																
120	3048.0																


 Pipe Quality Acc. to API 5 L,
 for Pipe O.D. 24" - OD 80"
 Material Quality X 70

HSAW PIPE FOR WATER PIPELINES

SPPC produces helical submerged arc welded (HSAW) pipe based on the production matrix listed below according to the following listed standards.



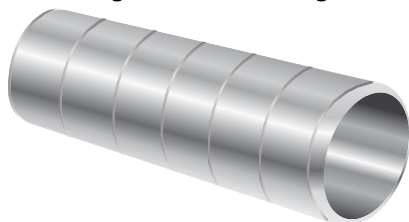
- AWWA C200
- ISIRI 6771: Steel Pipes for Water and Sewage
- DIN 2460 : Steel Water Pipes and Fittings

Pipe Diameter ↓		Wall Thickness																	
		Inch	0.2	0.250	0.281	0.312	0.344	0.375	0.406	0.438	0.469	0.500	0.531	0.562	0.600	0.656	0.688	0.719	0.750
		mm	5.08	6.35	7.14	7.92	8.74	9.53	10.31	11.13	11.91	12.70	13.49	14.27	15.24	16.66	17.48	18.26	19.05
Inch	mm																		
6	152.4																		
8	203.2																		
10	254.0																		
12	304.8																		
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56	1422.4																		
60	1524.0																		
64	1625.6																		
68	1727.2																		
72	1828.8																		
76	1930.4																		
80	2032.0																		
84	2133.6																		
88	2235.2																		
92	2336.8																		
96	2438.4																		
104	2,641.6																		
108	2,743.2																		
112	2,844.8																		
116	2,946.4																		
120	3048.0																		

Water Pipe Production
as Per AWWA C200

HSAW PIPE FOR STRUCTURAL USAGE & OFFSHORE PILES

SPPC produces helical submerged arc welded (HSAW) pipe based on the production matrix listed below according to the following listed standards.



- ASTM A252

Pipe Diameter ↓		Wall Thickness															
		Inch	0.2	0.25	0.28	0.344	0.375	0.406	0.438	0.469	0.500	0.531	0.562	0.600	0.656	0.688	0.719
		mm	5.08	6.35	7.11	8.74	9.53	10.31	11.13	11.91	12.70	13.49	14.27	15.24	16.66	17.48	18.26
Inch	mm																
6	152.4																
8	203.2																
10	254.0																
12	304.8																
14	355.6																
16	406.4																
18	457.2																
20	508.0																
22	559.0																
24	609.6																
26	660.4																
28	711.2																
30	762.0																
32	812.8																
34	863.6																
36	914.4																
38	965.2																
40	1016.0																
42	1066.8																
44	1117.6																
46	1168.4																
48	1219.2																
50	1270.0																
52	1320.8																
56	1422.4																
60	1524.0																
64	1625.6																
68	1727.2																
72	1828.8																
76	1930.4																
80	2032.0																
84	2133.6																
88	2235.2																
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108	2,743.2																
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116	2,946.4																
120	3048.0																



NON-TUBULAR PRODUCTS

NON-TUBULAR PRODUCTS

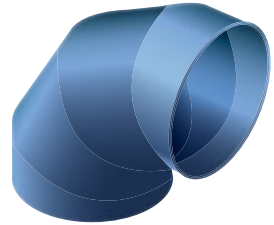
Miter Elbow

PRODUCT FEATURES:

Sanitary pipe fittings: Elbow fittings
 Connection mode: Welded Elbow
 Specification: Applied to the steel pipeline system
 Material quality: DIN 30670
 Standard: AWWA C208
 Application: Sanitary industry

FABRICATION PROCEDURE:

Spiral Pipe Machine
 Auto Fitting Cutting Machine
 Plasma Cutting Machine
 Angle Cutting Machine
 SMAW Welding Machine
 CO2 Welding Machine
 Auto Blasting Machine
 Powder Coating Application



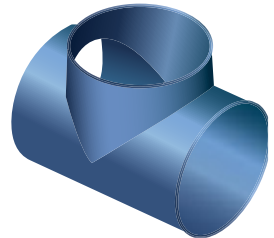
Tee

PRODUCT FEATURES:

Sanitary pipe fittings: Tee fittings
 Connection mode: Welded Tee
 Specification: Applied to the steel pipeline system
 Material quality: DIN 30670
 Standard: AWWA C208
 Application: Sanitary industry

FABRICATION PROCEDURE:

Spiral Pipe Machine
 End Cutting Machine
 SMAW Welding Machine
 CO2 Welding Machine
 Blasting Machine
 Powder Coating Application



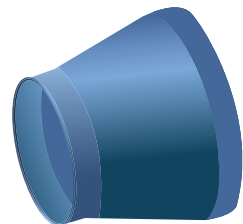
Reducer

PRODUCT FEATURES:

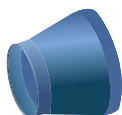
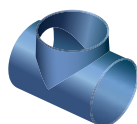
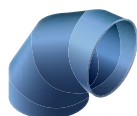
Sanitary pipe fittings: Reducer fittings
 Connection mode: Welded Concentric and Eccentric Reducer
 Specification: Applied to the steel pipeline system
 Material quality: DIN 30670
 Standard: AWWA C208
 Application: Sanitary industry

FABRICATION PROCEDURE:

Spiral Pipe Machine
 End Cutting Machine
 Plasma Cutting Machine
 Semi Auto Cutting Machine
 SMAW Welding Machine
 CO2 Welding Machine
 Auto Blasting Machine
 Powder Coating Application



NON-TUBULAR PRODUCTS



Size Availability

	kg				
	90°	45°	22.5°	Equal T	Eccentric
100A	9.37	8.39	4.88	8.13	7.44
150A	17.4	17.5	7.92	15.4	12.4
200A	29.1	26.6	15.1	27	18
250A	39.5	37.4	21.1	42.8	29.9
300A	51.2	46.6	26.5	51.6	38.6
350A	52.6	50.6	51.7	64.5	40.5
400A	65.1	57.8	66.8	71.7	50.7
500A	87.7	72.2	74.3	84.6	63.5
600A	129	131	134	140	73.8
700A	165	152	156	167	116
800A	221	273	278	295	152
900A	316	350	358	380	198
1000A	411	436	446	472	250
1100A	503	534	546	560	333
1200A	630	641	656	678	402
1350A	804	785	804	1040	488
1500A	1080	1020	1040	1310	629
1650A	1420	1200	1230	1880	908
1800A	1710	1390	1430	2250	1020
1900A	1980	1560	1600	2480	1160
2000A	2280	1740	1790	2790	1290
2100A	2610	2020	1980	3040	1530
2200A	2960	2230	2190	3380	1690
2300A	3350	2560	2400	3650	1860
2400A	3770	2800	2650	4650	2040
2500A	4220	3180	2860	5000	2360
2600A	4700	3450	3100	5430	2570
2800A	5770	4200	3610	5850	3180
2900A	6330	4520	3890	6320	3420
3000A	7240	5230	4320	6550	3780
3175A	8410	6120	4810	6880	4210
3302A	8210	6840	5420	7350	4840
3556A	10250	7800	6470	8140	5520
3810A	13400	8750	7520	8230	6450

Spreader Beam

Product Features:

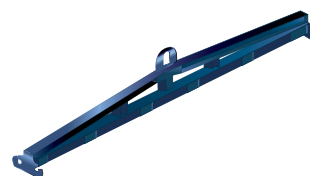
Mechanism: Spreader beam
Connection mode: Welded Beam
Application: Multi purposed

Fabrication Procedure:

CNC-Cutting Machine
Semi Auto Cutting Machine
CO2 Welding Machine
Blasting Machine
Powder Coating Application

Size Availability

Length		Weight	
M in	Max	M in	Max
M	M	ton	ton
3	12	1	50



Reinforcement Ring

Product Features

Mechanical and sanitary pipe fittings: Reinforcement ring
Connection mode: High Pressure Ring Specification: Applied to the steel pipeline system
Application: Sanitary industry, Gas industry

Fabrication Procedure:

Roll Bending Machine
Semi Auto Cutting Machine
Flange Bending Machine
CO2 Welding Machine
Blasting Machine
Powder Coating ApplicationMachine
CO2 Welding Machine
Blasting Machine
Powder Coating Application

Size Availability

Diameter		Thickness	
M in	Max	M in	Max
in.	in.	mm	mm
24	144	5	25



NON-TUBULAR PRODUCTS

Doubler Ring

Product Features:

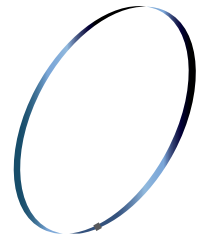
Mechanical and sanitary pipe fittings: Doubler ring
Connection mode: Welded Ring
Application: Sanitary industry, Gas industry

Fabrication Procedure:

Roll Bending Machine
CNC-Cutting Machine
Automatic Drilling Machine
CO2 Welding Machine
Blasting Machine
Powder Coating Application

Size Availability

Diameter		Thickness	
M in	Max in.	M in	Max mm
16	144	5	25



Pipe Clamp

Product Features:

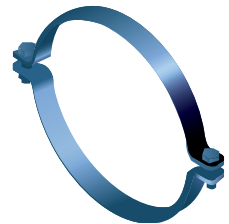
Mechanical and sanitary pipe fittings: Pipe clamp
Connection mode: High pressure clamp Specification: Applied to the steel pipeline system
Application: Sanitary industry, Gas industry

Fabrication Procedure:

Roll Bending Machine
V-Bending Machine
Drilling Machine
Blasting Machine
Powder Coating Application

Size Availability

Diameter		Thickness	
Min in	Max in.	Min mm	Max mm
24	144	5	25



Pipe Support

Product Features

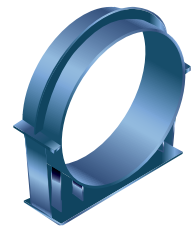
Mechanical and sanitary pipe fittings: Pipe Support
Connection mode: Pipe hanger, welded
Specification: Applied to the steel pipeline system
Material quality: ASTM A36
Application: Sanitary industry, Gas industry

Fabrication Procedure:

Roll Bending Machine
Expander Machine
CNC-Cutting Machine
Semi Auto Cutting Machine
Drilling Machine
CO2 Welding Machine
Blasting Machine
Powder Coating Application

Size Availability

Diameter		Thickness	
M in	Max in.	M in	Max mm
42	144	10	25



Cross Bar

Product Features:

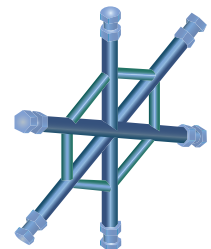
Mechanical and sanitary pipe fittings: Cross bar
Connection mode: Welded Cross Bar Specification: Applied to the steel pipeline system
Application: Sanitary industry, Gas industry

Fabrication Procedure:

SMAW Welding Machine
High Speed Wheel Cutting Machine
Machine

Size Availability

Diameter		Thickness	
Min in	Max in.	Min ton	Max ton
16	144	1.5	10



Bracket Ring

Product Features:

Mechanical and sanitary pipe fittings: Bracket Ring
Connection mode: High Pressure Ring Specification: Applied to the steel pipeline system
Application: Sanitary industry, Gas industry

Fabrication Procedure:

Roll Bending Machine
CNC-Cutting Machine
Drilling Machine
CO2 Welding Machine
SMAW Welding Machine
Blasting Machine
Powder Coating Application
CO2 Welding Machine
Blasting Machine
Powder Coating Application

Size Availability

Diameter		Thickness	
M in	Max in.	M in	Max mm
24	144	5	25



Product Summary

COATING PRODUCTS

EXTERNAL COATINGS

1. BITUSEAL® COATING SYSTEM
2. REINFORCED BITUSEAL® COATING SYSTEM
3. FUSION-BONDED EPOXY (FBE)
4. DUAL LAYER FUSION-BONDED EPOXY (DL-FBE)
5. LOW APPLICATION TEMPERATURE FBE
6. THREE-LAYER POLYETHYLENE (3LPE)
7. THREE-LAYER POLYPROPYLENE (3LPP)
8. MULTI-LAYER FBE COATING FOR CASINGS & TUBING
9. ROCKGUARD®
10. OXIDIZED BITUMEN ENAMEL
11. PHOENIX MULTIPLEX® PIPE COATING SYSTEM
12. TRI-LAYER FBE (TL-FBE) AND QUAD-LAYER FBE (QL-FBE)
13. POLYUREA, LIQUID EPOXY, AND POLYURETHANE COATINGS FOR EXPOSED PIPELINES AND STRUCTURES
14. POLYESTER COATING SYSTEM/PU + DL FBE
15. FOUR COMPONENT COMPOSITE COATING (4CCC)
16. FIVE COMPONENT COMPOSITE COATING (5CCC)
17. SIX COMPONENT COMPOSITE COATING (6CCC)

INTERNAL COATINGS

1. INTERNAL FBE COATING FOR DRILL PIPES
2. INTERNAL FBE COATING FOR SOUR SERVICE PIPELINES
3. INTERNAL FBE COATING FOR CRUDE OIL LINES
4. CEMENT MORTAR LINING
5. INTERNAL FBE COATING FOR TUBINGS
6. INTERNAL FBE FLOW & ANTI-CORROSION COATING
7. INTERNAL FBE COATING FOR SEA WATER & SALINE WATER PIPELINES
8. INTERNAL FBE COATING FOR WASTE WATER PIPELINES
9. INTERNAL FBE COATING FOR POTABLE WATER PIPELINES
10. INTERNAL LIQUID EPOXY FLOW EFFICIENCY COATING
11. INTERNAL FBE FLOW EFFICIENCY COATING
12. STATIC DISSIPATING EPOXY COATING
13. INTERNAL LIQUID EPOXY FOR POTABLE WATER PIPELINES

HIGH TEMPERATURE COATINGS & THERMAL INSULATION COATINGS

1. HIGH-TEMPERATURE FBE
2. THERMOMAX® (MULTI-LAYER PP FOR HIGH-TEMPERATURE LINES)
3. THERMOGUARD® (FBE + PU FOAM + PP JACKET)
4. THERMOSEAL® (FBE + PU FOAM + PE WITH SEALED ENDS)

CUSTOM COATINGS OF STEEL FITTINGS AND COMPONENTS

TUBULAR PRODUCTS

HSAW PIPE FOR OIL & GAS PIPELINES

HSAW PIPE FOR WATER PIPELINES

HSAW PIPE FOR STRUCTURAL USAGE & OFFSHORE PILES

NON-TUBULAR PRODUCTS

MITER ELBOW

TEE

REDUCER

SPREADER BEAM

DOUBLER RING

REINFORCEMENT RING

PIPE CLAMP

PIPE SUPPORT

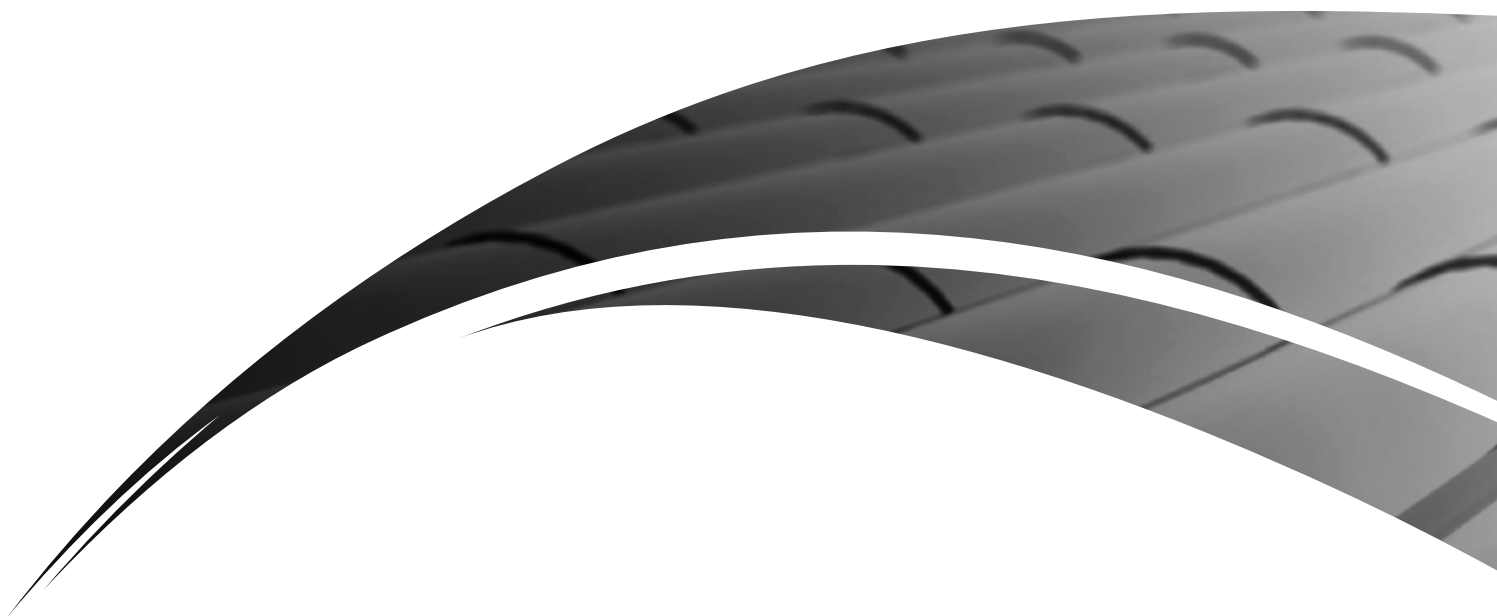
CROSS BAR

BRACKET RING



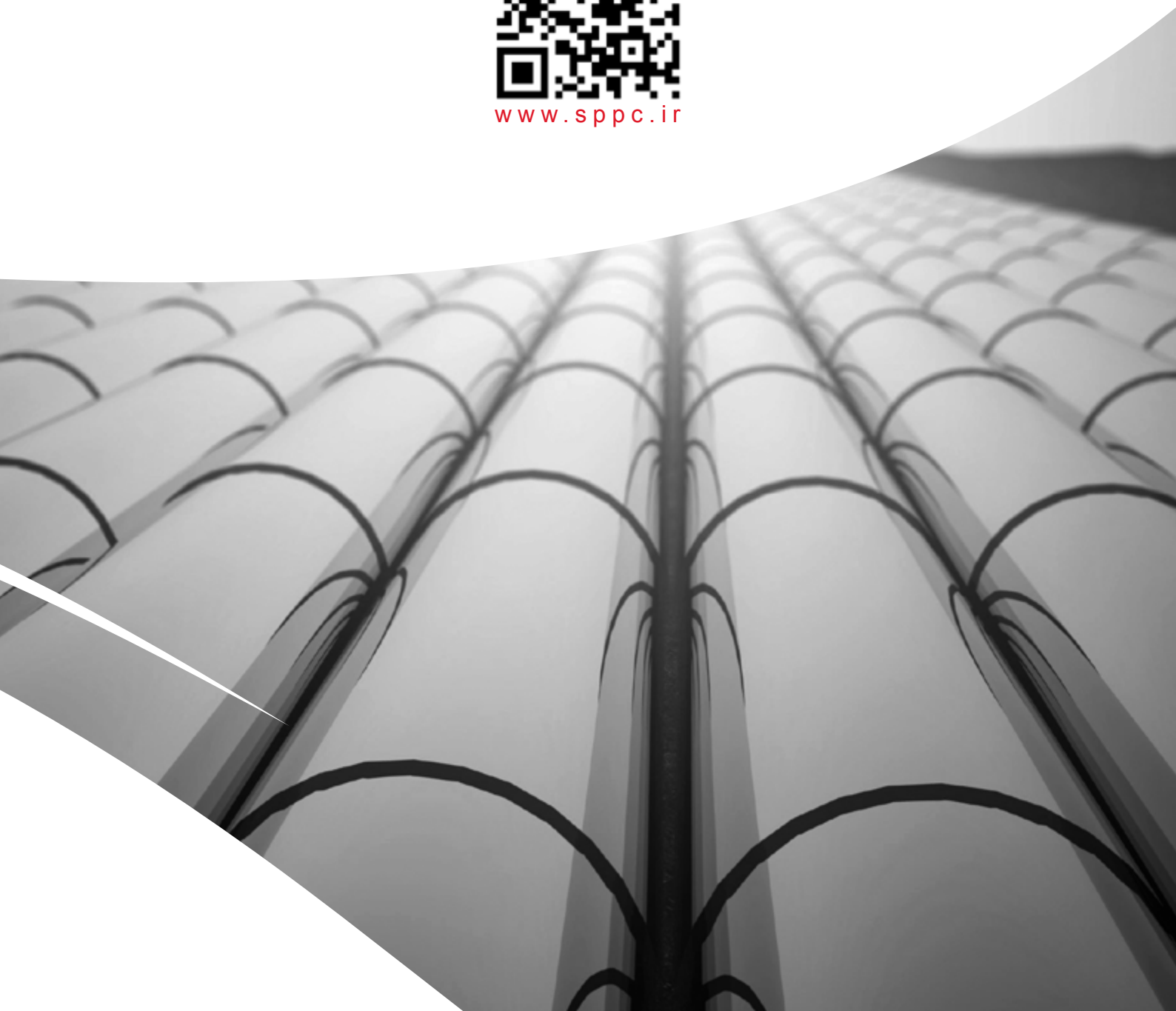


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