

Loresco RS•3 is the newest and most innovative super conducting earth contact backfill in the Loresco product line. RS•3 combines the characteristics of superior low resistivity and high bulk density with a remarkably rapid sinking ability to provide the latest in conductive carbon backfill technology. Because of the new rapid sinking ability RS•3 is able to achieve maximum compaction quickly. Rapid sinking allows for a faster construction completion time and faster energizing of the anode system. Rapid sinking allows for pouring when pumping is not an option. RS•3 is able to handle the demands of stringent field requirements. This is the first time a conductive carbon backfill combining pumping ability and pouring ability has been available in one bag. RS•3 is manufactured under a new process which creates a new surface with superior conductive properties. This manufacturing process is exclusive to conductive carbon formulations designed for cathodic protection. The new manufacturing process ensures the impressed current anode and RS•3 system have increased electronic flow performance to further increase the life of the anode system. Loresco RS•3 is produced specifically for cathodic protection applications using an exclusive multi-step process.

**First**, a very high quality base carbon with desired characteristics is selected. **Next**, this carbon is calcined to a minimum temperature of 1250° C under very exacting and controlled standards. This step results in

semi-graphitized carbon particles with excellent conductivity. All particles shaped and surface modified for maximum electrical conductivity and high-current applications. **Then**, to further improve the bulk conductivity, the surfaces of the individual particles are *modified* to enhance the contact conductance in a process exclusive only to the corrosion industry. This breakthrough in surface alteration ensures maximum electronic current transfer with positive anode contact. **Finally**, a specially formulated surfactant is added to reduce particle surface tension for compact settling under water.

Loresco RS•3 has a bulk density of 68 lbs per cubic foot. The fixed carbon content is greater than 99% by weight. The bulk density and high fixed carbon content coupled with the assured low resistivity medium allows for longer groundbed life at a lower operating cost.

## INSTALLATION

Loresco RS•3, due to its manufacturing process, is simple to install by either mixing and pumping or by pouring dry. With deep anode systems, pumping from the bottom up is recommended. Loresco RS•3 has superb pumping qualities due to the addition of surfactants and when agitated in water, takes on the characteristics of super heavy mud. Time before energizing is greatly reduced after installing RS•3. The modified surface of the carbon particles coupled with the action

of the surfactants in RS•3 will achieve positive electrical contact by settling. Vibrating or compacting is not necessary. See installation section on page 34 in this catalog for additional pumping data.

### RS•3 WORKS

Loresco RS•3 represents technology developed exclusively for high current cathodic protection installations. RS•3 will satisfy all functioning requirements for a premium earth contact backfill.

### Specify Loresco RS•3. It works.

**DRY VOLUME OF LORESCO TYPE RS3 REQUIRED VS. CYLINDRICAL HOLE SIZE**

HOLE SIZE	CUBIC FT. PER LINEAL FT.	LBS. TYPE RS3 PER FT.	FT. TYPE RS3 PER 100 LBS.	LBS. RS3 PER 100 FT. OF HOLE
4"	.087	5.9	16.90	590
6"	.196	13.3	7.50	1330
8"	.349	23.7	4.21	2370
10"	.545	37.1	2.70	3710
12"	.784	53.3	1.88	5330

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### MATERIAL DESCRIPTION

Loresco RS•3 is a surface modified, blended, and sized carbon backfill with surfactants.

### SPECIFICATIONS

<b>Fixed Carbon</b>	99.4%
<b>Ash</b>	0.5%
<b>Moisture</b>	0.1%
<b>Volatiles</b>	nil (950°C)*
<b>Bulk Density</b>	68 lbs. per cubic foot

- All particles shaped and surface modified for maximum electrical conductivity and high-current applications
- Particle sized to facilitate pumping and pouring applications with rapid settling
- Maximum particle size 2.5mm
- Minimum calcination temperature of base materials is 1250° C
- Base materials are calcined under ISO 9002:2000 quality control
- No de-dusting oils are used during the manufacture of base particles

*Typical values shown above. Specifications subject to changes without notice.*

*\*Hydrogen / hydrocarbons nil due to calcination temperature in excess of 1200° C*

Loresco SC•3 is the *finest* earth contact backfill in the Loresco line of products. Loresco is already acknowledged around the world as a leader in cathodic protection. A dramatic breakthrough in over thirty years of research has now produced a super-conducting premium earth contact backfill called Loresco SC•3. Once again, Loresco defines the standard for quality and performance in the cathodic protection industry.

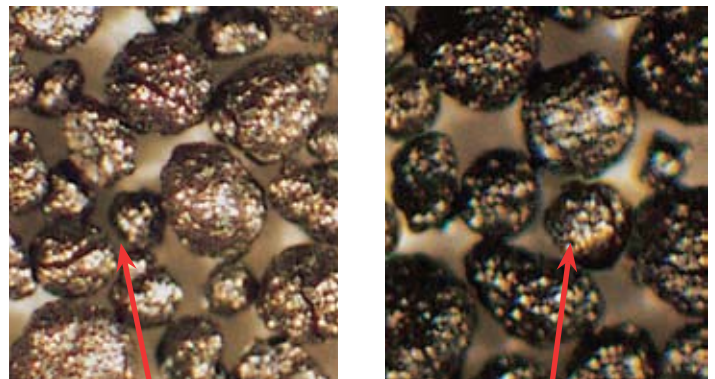
Loresco SC•3 is designed specifically for demanding anode systems which mandate a low resistivity medium. SC•3 is a dust free product and, according to EPA extraction tests, is extremely pure and complies with regulations governing buried products. Utilizing a modified industrial standard method for testing permeability (API RP-27), SC•3 will mitigate fluid interchange between aquifers. Loresco SC•3 is produced specifically for cathodic protection applications using an exclusive multi-step process.

**First**, a very high quality base carbon with desired characteristics is selected. **Next**, this carbon is calcined to a minimum temperature of 1250° C under very exacting and controlled standards. This step results in semi-graphitized carbon particles with excellent conductivity. **Then**, to further improve the bulk conductivity, the surfaces of the individual particles are *modified* to enhance the contact conductance. This breakthrough in surface alteration ensures

maximum electronic current transfer with positive anode contact. **Finally**, a specially formulated surfactant is added to reduce particle surface tension for compact settling under water.

Loresco SC•3 has a bulk density of 74 lbs per cubic foot. The fixed carbon content is greater than 99% by weight. The bulk density and high fixed carbon content coupled with the assured low resistivity medium allows for longer grounded life at a lower operating cost.

The photo below is a magnification of Loresco SC•3



Particles Before Coating

Particles After Coating

## INSTALLATION

Loresco SC•3, due to its dust-free manufacture, is simple to install by either mixing and pumping or by pouring dry. With deep anode systems, pumping from the bottom up is recommended. Loresco SC•3 has superb pumping qualities due to the addition of surfactants and when agitated in water, takes on the characteristics of heavy

## Earth Contact Backfill

mud. A recommended mix is seven gallons of water per one-hundred pounds. After installing SC•3, allow twenty-four hours settling time before energizing. The modified surface of the carbon particles coupled with the action of the surfactants in SC•3 will achieve positive electrical contact by settling. Vibrating or compacting is not necessary. See installation section in this catalog for additional pumping data.



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### SC•3 WORKS

Loresco SC•3 represents technology developed exclusively for high current cathodic protection installations. SC•3 will satisfy all functioning requirements for a premium earth contact backfill.

### Specify Loresco SC•3. It works.

**DRY VOLUME OF LORESCO TYPE SC3 REQUIRED VS. CYLINDRICAL HOLE SIZE**

HOLE SIZE	CUBIC FT. PER LINEAL FT.	LBS. TYPE SC3 PER FT.	FT. TYPE SC3 PER 100 LBS.	LBS. SC3 PER 100 FT. OF HOLE
4"	.087	6.4	15.70	640
6"	.196	14.3	6.99	1430
8"	.349	25.5	3.93	2550
10"	.545	39.8	2.51	3980
12"	.784	57.2	1.75	5720

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### MATERIAL DESCRIPTION

Loresco SC•3 is a surface modified, blended, and sized carbon backfill with surfactants.

### SPECIFICATIONS

<b>Fixed Carbon</b>	99.35%
<b>Ash</b>	0.6%
<b>Moisture</b>	0.05%
<b>Volatiles</b>	nil (950°C)*
<b>Bulk Density</b>	74 lbs. per cubic foot

- Predominantly round particles
- All particles surface modified for maximum electrical conductivity and high current applications
- Particle sizing to be dust free with a maximum particle size of 1mm
- Minimum calcination temperature of base materials is 1250° C
- Base materials are calcined under ISO 9002:2000 quality control
- Surfactants are added to assist pumping and settling
- No de-dusting oils are used during the manufacture of base particles

*Typical values shown above. Specifications subject to changes without notice.*

*\*Hydrogen / hydrocarbons nil due to calcination temperature in excess of 1200° C*

Loresco SC•2 is one of Loresco's *premium* earth contact backfills manufactured for deep anode systems. Loresco is already acknowledged around the world as a leader in cathodic protection. A dramatic breakthrough in over thirty years of research has now produced a super conducting premium earth contact backfill called Loresco SC•2. Once again, Loresco defines the standard for quality and performance in the cathodic protection industry.

Loresco SC•2 is designed specifically for deep anode systems. Loresco SC•2 is a dust free product and, according to EPA extraction tests, is extremely pure and complies with regulations governing buried products. SC•2 mixes easily with water and may be pumped into deep anode systems. Loresco SC•2 is designed to promote electronic flow between the anode surface and itself. Loresco SC•2 is produced especially for cathodic protection applications using an exclusive multi-step process.

**First**, a very high quality base carbon with desired characteristics is selected. **Next**, this carbon is calcined to a minimum temperature of 1250° C under very exacting and controlled standards. This step results in semi-graphitized carbon particles with excellent conductivity. **Then**, to further improve the bulk conductivity, the surfaces of the individual particles are *partially-modified* to enhance the contact conductance.

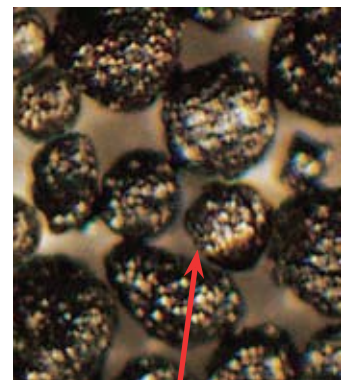
This breakthrough in surface alteration ensures maximum electronic current transfer with positive anode contact. The surface alteration on the particle surfaces is not easily removed and stands up to the vigorous application methods in all field requirements.

Loresco SC•2 has a bulk density of 74 lbs per cubic foot. The fixed carbon content is greater than 99% by weight. The bulk density and high fixed carbon content coupled with the assured low resistivity medium allows for longer grounded life at a lower operating cost.

The photo below is a magnification of Loresco SC•2



Particles Before Coating



Particles After Coating

## INSTALLATION

Loresco SC•2 has excellent pumping qualities and when agitated in water, takes on the characteristics of heavy mud. A recommended mix is seven gallons of water per one-hundred pounds. After installing

SC•2, allow twenty-four hours settling time before energizing. The *partially modified* surface of the carbon particles in SC•2 will achieve positive electrical contact by settling. Vibrating or compacting is not necessary. See installation section of this catalog for additional pumping data.

### SC•2 WORKS

Loresco SC•2 represents technology developed exclusively for deep and shallow impressed current cathodic protection installations. SC•2 is a premium earth contact backfill.

### Specify Loresco SC•2. It works.

**DRY VOLUME OF LORESCO TYPE SC2 REQUIRED VS. CYLINDRICAL HOLE SIZE**

HOLE SIZE	CUBIC FT. PER LINEAL FT.	LBS. TYPE SC2 PER FT.	FT. TYPE SC2 PER 100 LBS.	LBS. SC2 PER 100 FT. OF HOLE
4"	.087	6.4	15.70	640
6"	.196	14.3	6.99	1430
8"	.349	25.5	3.93	2550
10"	.545	39.8	2.51	3980
12"	.784	57.2	1.75	5720

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### MATERIAL DESCRIPTION

Loresco SC•2 is a partially surface modified, blended, and sized carbon backfill.

### SPECIFICATIONS

<b>Fixed Carbon</b>	99.35%
<b>Ash</b>	0.6%
<b>Moisture</b>	0.05%
<b>Volatiles</b>	nil (950°C)*
<b>Bulk Density</b>	74 lbs. per cubic foot

- Predominantly round particles
- Particles surface modified for increased electrical conductivity
- Particle sizing to be dust free with a maximum particle size of 1mm.
- Minimum calcination temperature of base materials is 1250° C
- Base materials are calcined under ISO 9002:2000 quality control
- No de-dusting oils are used during the manufacture of base particles

*Typical values shown above. Specifications subject to changes without notice.*

*\*Hydrogen / hydrocarbons nil due to calcination temperature in excess of 1200° C*

## DW•1 EARTH CONTACT BACKFILL

Loresco DW•1 is a sized carbon backfill with particles ranging between .004 inch to 1 mm. DW•1 weighs seventy-four pounds per cubic foot and sinks readily in water or light mud. The fixed carbon content of DW•1 is over ninety-nine percent.

Being a sized and predominantly round material, DW•1 may be installed by either pumping or pouring. Approximately seven gallons of water per one-hundred pounds of backfill should be utilized when pumping. DW•1 wets easily and only minimum agitation is necessary before pumping.

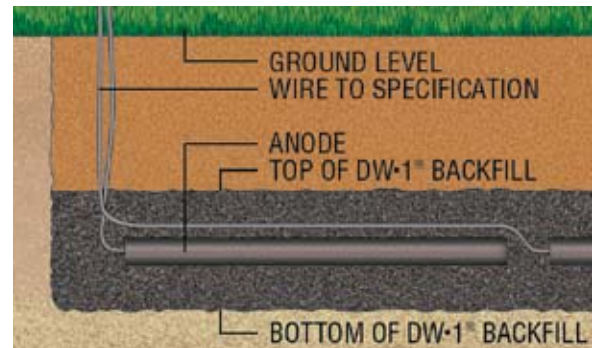
DW•1 is a product specifically manufactured to be placed into the earth. According to EPA-approved leachrate tests, DW•1 meets all purity requirements for materials utilized in underground burial. There are no “dedusting oils” allowed in the manufacture of Loresco DW•1.

## INSTALLATION

Loresco DW•1 may be poured freely into dry applications. Tamping is not required. When it is applied by pumping, the recommended method is to pump from the bottom of the bored hole upward.

After the application pipe (a one-inch steel pipe) has been lowered down to the bottom of the bored hole, it is coupled to a 20 GPM pump with a minimum capacity of 250 psi. Normally, the application pipe does not have

to be raised during pumping procedures. Refer to installation section in this catalog for additional pumping information.



Typical Horizontal Installation

## HORIZONTAL INSTALLATION PROCEDURE

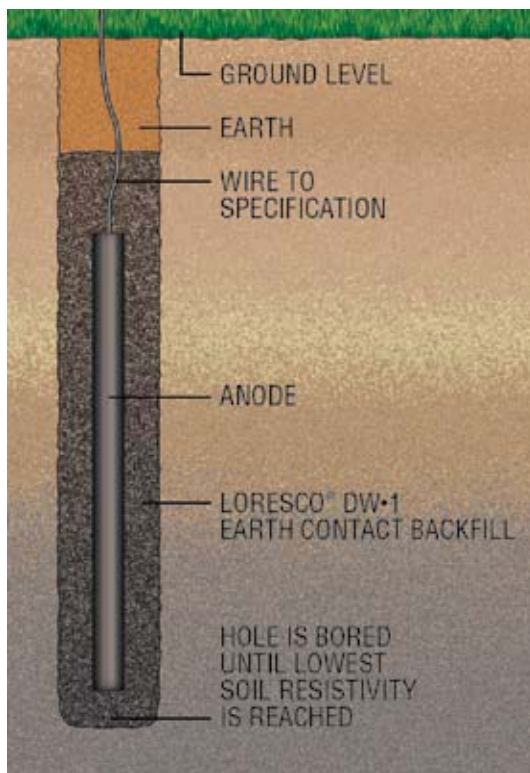
(see illustration)

- Have a reasonably clean ditch (design usually calls for a ditch one foot wide.)
- Pour Loresco DW•1 in a continuous layer six inches deep (or as specified.)
- Place anodes on top of DW•1.
- Pour DW•1 in a continuous layer six inches deep until anodes are covered by a six inch backfill cover (or as specified.)
- Fill the remainder of the ditch as specified.
- Fill remainder of hole as design specifies.

### VERTICAL INSTALLATION PROCEDURE

(see illustration)

- Have a reasonably clean hole (depth depending on soil resistivity.)
- Place one foot of DW•1 in bottom of hole.
- Lower and center anode in proper position.
- Pour DW•1 over anode until design level is reached.
- Fill remainder of hole as design specifies.



Typical Vertical Installation

### DRY VOLUME OF LORESCO TYPE DW-1 REQUIRED VS. CYLINDRICAL HOLE SIZE

HOLE SIZE	CUBIC FT. PER LINEAL FT.	LBS. TYPE DW-1 PER FT.	FT. TYPE DW-1 PER 100 LBS.	LBS. DW-1 PER 100 FT. OF HOLE
4"	.087	6.4	15.70	640
6"	.196	14.3	6.99	1430
8"	.349	25.5	3.93	2550
10"	.545	39.8	2.51	3980
12"	.784	57.2	1.75	5720

### SPECIFICATIONS

<b>Fixed Carbon</b>	99.35%
<b>Ash</b>	0.6%
<b>Moisture</b>	0.05%
<b>Volatiles</b>	nil (950°C)*
<b>Bulk Density</b>	74 lbs. per cubic foot
<b>Particle Sizing</b>	Ranging from .004 inch to 1 mm.

Typical values shown above. Specifications subject to changes without notice.

\*Hydrogen / hydrocarbons nil due to calcination temperature in excess of 1200° C

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## SWK EARTH CONTACT BACKFILL

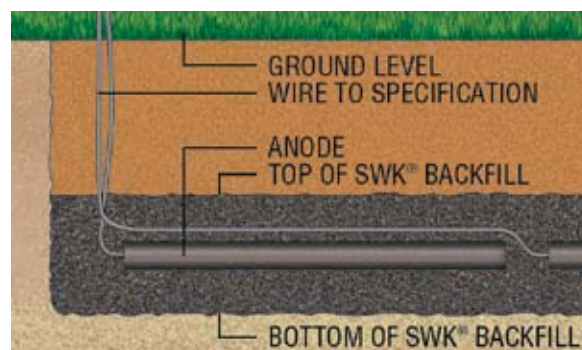
Loresco SWK is designed specifically for impressed current surface and containerized anodes. It has particle sizes ranging from .004 in. to one-half (1/2) in. SWK is heavy and sinks readily in water or light mud. It can be installed by pouring around the anodes and tamping is not necessary.

The particles of SWK exhibit a hard round shape and are composed of almost solid carbon. The bulk density of SWK is seventy pounds per cubic foot and the porosity is forty-four percent. SWK is a product designed specifically for use around anodes in the earth.

The low resistivity of SWK enables intimate anode contact and assures that most electrolytic discharge will occur at the backfill periphery. According to EPA-approved leachrate tests, SWK meets all purity requirements for materials utilized in underground burial. There are no “dedusting oils” allowed in the production of Loresco SWK.

## INSTALLATION

Loresco SWK may be poured freely in dry applications. Tamping is not required. If SWK is poured through water or light mud, the rate of pouring should not exceed the rate of SWK's wetting and sinking. The rate of pouring through water will be approximately one-hundred pounds per two minutes.



Typical Horizontal Installation

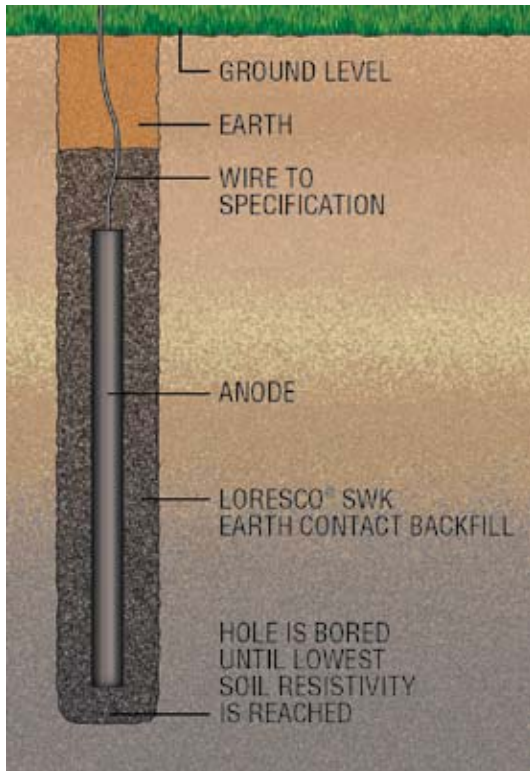
## HORIZONTAL INSTALLATION PROCEDURE

(see illustration)

- Have a reasonably clean ditch (design usually calls for a ditch one foot wide.)
- Pour Loresco SWK in a continuous layer six inches deep (or as specified.)
- Place anodes on top of SWK.
- Pour SWK in a continuous layer until anodes are covered by a six inch backfill cover or as specified.
- Fill the remainder of the ditch as specified.

### VERTICAL INSTALLATION PROCEDURE

- Have a reasonably clean hole (depth depending on soil resistivity.)
- Place one foot of SWK in bottom of hole.
- Lower and center anode in proper position.
- Pour SWK over anode until design level is reached.
- Fill remainder of hole as design specifies.



Typical Vertical Installation

### DRY VOLUME OF LORESCO TYPE SWK REQUIRED VS. CYLINDRICAL HOLE SIZE

HOLE SIZE	CUBIC FT. PER LINEAL FT.	LBS. TYPE SWK PER FT.	FT. TYPE SWK PER 100 LBS.	LBS. SWK PER 100 FT. OF HOLE
4"	.087	6.1	16.40	610
6"	.196	13.7	7.30	1370
8"	.349	24.4	4.10	2440
10"	.545	38.2	2.62	3820
12"	.784	54.9	1.82	5490

### SPECIFICATIONS

<b>Fixed Carbon</b>	99.35%
<b>Ash</b>	0.6%
<b>Moisture</b>	0.05%
<b>Volatiles</b>	nil (950°C)*
<b>Bulk Density</b>	70 lbs. per cubic foot
<b>Particle Sizing</b>	Ranging from .004 to 1/2 inch

Typical values shown above. Specifications subject to changes without notice.

\*Hydrogen / hydrocarbons nil due to calcination temperature in excess of 1200° C

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## SW EARTH CONTACT BACKFILL

Loresco SW is designed for use in impressed current surface systems. SW is also suitable for containerized anode systems and semi-deep impressed current systems. SW may be poured dry or through water or light mud.

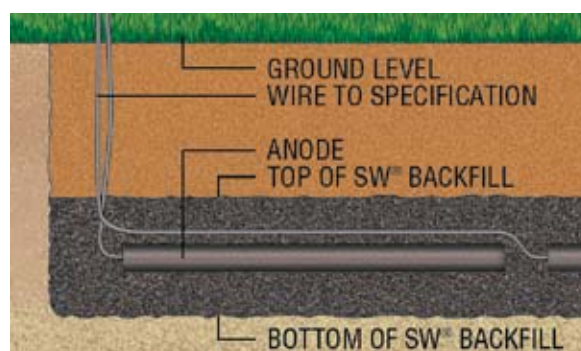
Loresco SW exhibits a hard, round shape and does not require tamping because of its ability to go to full density with simple pouring. The bulk density of SW is 54 lbs. per cubic foot with a porosity of 56.7%. The particle sizing of SW ranges from 1 mm. to 12 mm.

The manufacture of SW is in a highly controlled "hot" atmosphere which produces a particle surface with wettable characteristics. This allows SW to be freely poured directly into water or light mud without sacrificing system integrity due to poorly compacted carbon. Set up time is almost instantaneous. There are no "dedusting oils" allowed in the manufacture of Loresco SW.

Loresco SW is a product designed to be placed in the earth. According to EPA-approved leachate tests, SW meets all purity requirements for materials utilized in underground burial.

## INSTALLATION

Loresco SW may be poured freely in dry applications. If SW is poured through water, the rate should not exceed one-hundred pounds per minute. The rate of pouring should be decreased if the fluid is a light mud.



Typical Horizontal Installation

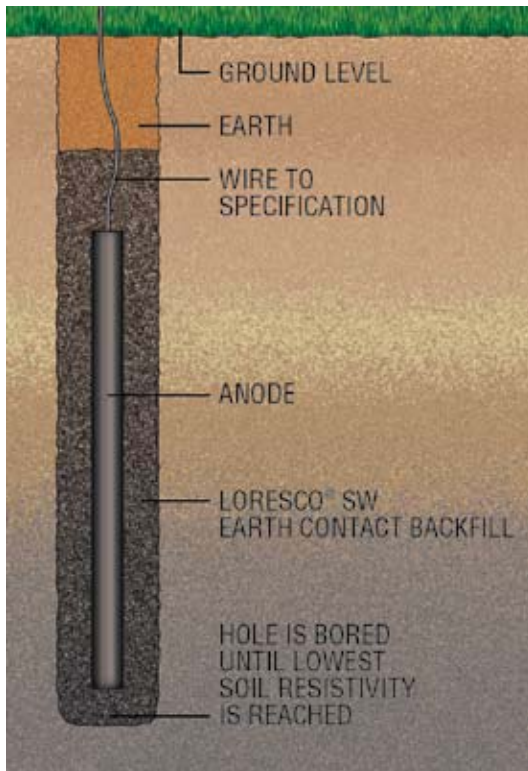
## HORIZONTAL INSTALLATION PROCEDURE

(see illustration)

- Have a reasonably clean ditch (design usually calls for a ditch one foot wide.)
- Pour Loresco SW in a continuous layer six inches deep (or as specified.)
- Place anodes on top of SW.
- Pour SW in a continuous layer until anodes are covered by a six inch backfill cover (or as specified.)
- Fill the remainder of the ditch as specified.

### VERTICAL INSTALLATION PROCEDURE

- Have a reasonably clean hole (depth depending on soil resistivity).
- Place one foot of SW in bottom of hole.
- Lower and center anode in proper position.
- Pour SW over anode until design level is reached.
- Fill remainder of hole as design specifics.



Typical Vertical Installation

### DRY VOLUME OF LORESCO TYPE SW REQUIRED VS. CYLINDRICAL HOLE SIZE

HOLE SIZE	CUBIC FT. PER LINEAL FT.	LBS. TYPE SW PER FT.	FT. TYPE SW PER 100 LBS.	LBS. SW PER 100 FT. OF HOLE
4"	.087	4.7	21.30	470
6"	.196	10.6	9.45	1060
8"	.349	18.8	5.30	1880
10"	.545	29.4	3.40	2940
12"	.784	42.3	2.36	4230

### SPECIFICATIONS

<b>Fixed Carbon</b>	99.35%
<b>Ash</b>	0.6%
<b>Moisture</b>	0.05%
<b>Volatiles</b>	nil (950°C)*
<b>Bulk Density</b>	54 lbs. per cubic foot
<b>Particle Sizing</b>	Ranging from 1mm to 12mm.

*Typical values shown above. Specifications subject to changes without notice.*

*\*Hydrogen / hydrocarbons nil due to calcination temperature in excess of 1200° C*

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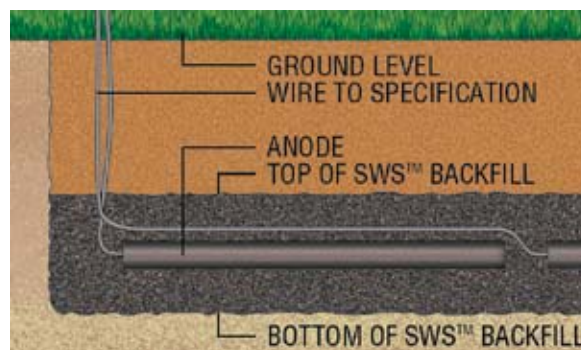
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Loresco SWS is designed for use in impressed current surface systems. SWS is also suitable for containerized anode systems and semi-deep impressed current systems. SWS is also designed for use around continuous, long-line impressed current anodes.

Loresco SWS is a uniform sized earth contact backfill with 90 percent of the particles between 1mm and 5mm. The bulk density of Loresco SWS is 68 lbs per cubic foot.

The production of SWS begins with the selection of a base material which meets Loresco's exacting standards. Calcination of the base material is strictly controlled according to Loresco's quality control standards. There are no "dedusting oils" allowed in the production of SWS.

The free-flowing properties of Loresco SWS allow the product to be quickly poured into position. Loresco SWS may be poured into water or light mud without sacrificing system integrity due to poorly compacted carbon. Set up time is almost instantaneous.



Typical Horizontal Installation

## INSTALLATION

Loresco SWS may be poured freely in dry applications. If SWS is poured through water, the rate should not exceed one-hundred pounds per minute. The rate of pouring should be decreased if the fluid is a light mud.

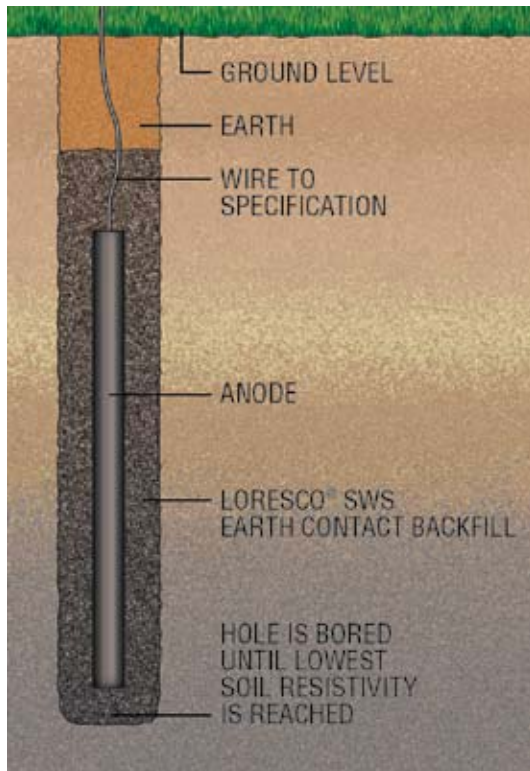
### HORIZONTAL INSTALLATION PROCEDURE

(see illustration)

- Have a reasonably clean ditch (design usually calls for a ditch one foot wide.)
- Pour Loresco SWS in a continuous layer six inches deep (or as specified.)
- Place anodes on top of SWS.
- Pour SWS in a continuous layer until anodes are covered by a six inch backfill cover (or as specified.)
- Fill the remainder of the ditch as specified.

### VERTICAL INSTALLATION PROCEDURE

- Have a reasonably clean hole (depth depending on soil resistivity).
- Place one foot of SWS in bottom of hole.
- Lower and center anode in proper position.
- Pour SWS over anode until design level is reached.
- Fill remainder of hole as design specifies.



Typical Vertical Installation

### DRY VOLUME OF LORESCO TYPE SWS REQUIRED VS. CYLINDRICAL HOLE SIZE

HOLE SIZE	CUBIC FT. PER LINEAL FT.	POUNDS TYPE SWS PER FT.	FT. TYPE SWS PER 100 LBS.	LBS. SWS PER 100 FT. OF HOLE
4"	.087	5.9	16.9	590
6"	.196	13.3	7.5	1330
8"	.349	23.7	4.2	2370
10"	.545	37.1	2.7	3710
12"	.784	53.3	1.9	5330

### SPECIFICATIONS

<b>Fixed Carbon</b>	99.25%
<b>Ash</b>	0.6%
<b>Moisture</b>	0.05%
<b>Volatiles</b>	nil (950°C)*
<b>Bulk Density</b>	68 lbs. per cubic foot
<b>Particle Sizing</b>	90% between 1mm and 5mm

*Typical values shown above. Specifications subject to changes without notice.*

*\*Hydrogen / hydrocarbons nil due to calcination temperature in excess of 1200° C*

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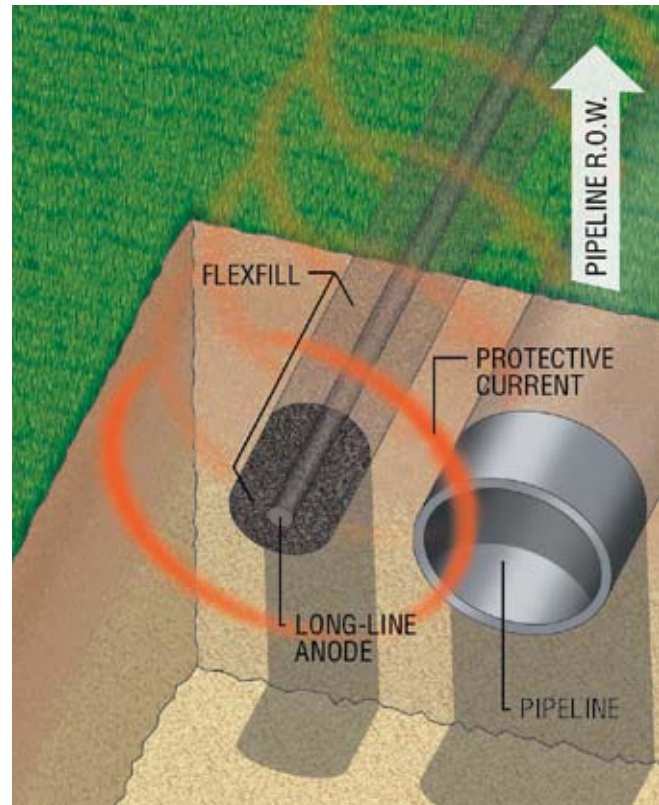
## FLEXFILL FREE-FLOWING EARTH CONTACT BACKFILL

Designed especially for continuous long-line anodes for impressed current cathodic protection.

FlexFill is designed for use around continuous, long-line impressed current anodes. FlexFill is the result of extensive laboratory testing combining the rugged requirements of field installation with the demanding performance characteristics required for long-line anodes.

The production of FlexFill begins with the critical selection of a base carbon material which meets exacting standards. Calcination of the base material is strictly controlled according to Loresco quality control standards. Sizing of FlexFill during the manufacturing process is also carefully controlled to meet the requirements of conductive backfill used with long-line impressed current anodes. All surfaces of FlexFill are modified with a conductive coating which maximizes the electronic flow between FlexFill™ and the long-line anode. In effect, this maximizes the life of the anode.

FlexFill is a performing backfill medium designed specifically for use with impressed current long-line anodes. Advanced particle selection technology, enhanced surface modifications and rigid production controls all combine to ensure that FlexFill surpasses your performance requirements. FlexFill is yet another example of how Loresco



continues to set the performance standard in cathodic protection.

## INSTALLATION

FlexFill is simple to install either by pouring or by subsurface displacement with gravity flow. FlexFill has been designed to be placed by either method with no additional steps necessary to create a successful conductive medium. No vibrating nor compacting is required.

## SHIPPING

FlexFill is shipped in 50 lb. woven polypropylene bags. Pallets are available with 50 bags per pallet. Proven export packaging is available. Bulk bags are also available.

DRY VOLUME OF A CYLINDRICAL COLUMN OF FLEXFILL VS. HOLE SIZE				
HOLE SIZE	CUBIC FT. PER LINEAL FT.	POUNDS TYPE FLEXFILL PER FTP	FT. TYPE FLEXFILL PER 100 LBS	LBS. FLEXFILL PER 100 FT. OF HOLE
4"	.087	5.9	16.9	590
6"	.196	13.3	7.5	1330
8"	.349	23.7	4.2	2370
10"	.545	37.1	2.7	3710
12"	.784	53.3	1.9	5330

DRY VOLUME OF A RECTANGULAR COLUMN OF FLEXFILL VS. HOLE SIZE				
HOLE SIZE	CUBIC FT. PER LINEAL FT.	POUNDS TYPE FLEXFILL PER FT	FT. TYPE FLEXFILL PER 100 LBS.	LBS. FLEXFILL PER 100 FT. OF HOLE
4x4	.111	7.5	13.2	750
4x6	.167	11.4	8.8	1140
5x5	.174	11.8	8.5	1180
5x6	.208	14.4	7.1	1410
6x6	.250	17.0	5.9	1700

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### SPECIFICATIONS

<b>Fixed Carbon</b>	99.25%
<b>Ash</b>	0.6%
<b>Moisture</b>	0.50%
<b>Volatiles (950°)</b>	nil (950° C)*
<b>Bulk Density</b>	68 lbs. per cubic foot
<b>Particle Shape</b>	Predominantly round
<b>Particle Surface</b>	All particles are surface modified for maximum electronic conductivity
<b>Particle Sizing</b>	90% between 1mm and 5mm

No dedusting oils are allowed during particle manufacturing.

*Typical values shown above. Specifications subject to changes without notice.*

*\*Hydrogen / hydrocarbons nil due to calcination temperature in excess of 1200° C*

### CORROSION SERVICE

AUTHORIZED LORESCO DISTRIBUTOR  
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[materials@corrosionservice.com](mailto:materials@corrosionservice.com)

1.800.676.4984



## ENVIROCOKE IV CONDUCTIVE CARBON GROUT

Designed specifically for use in environmentally sensitive areas.

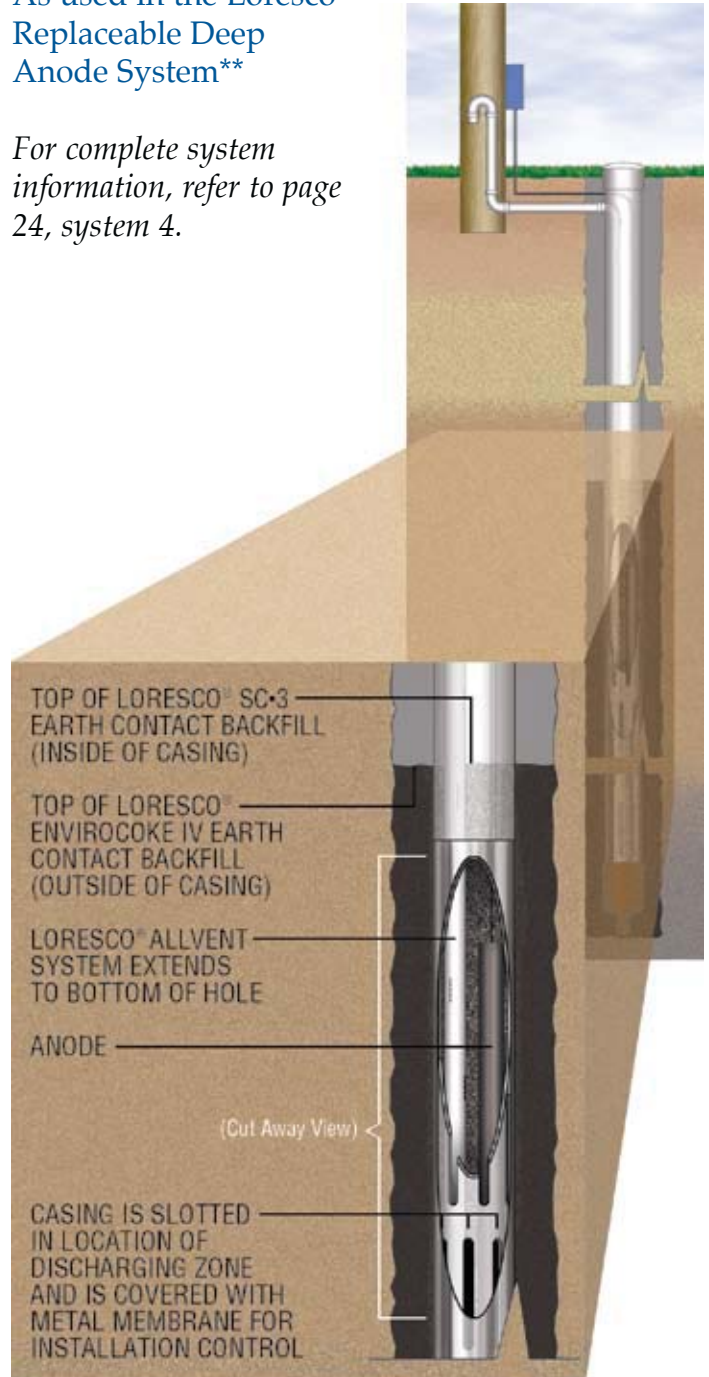
EnviroCoke IV\*, the backfill in the Loresco line of products designed specifically for deep cathodic protection systems whose discharge area must include environmentally sensitive zones.

EnviroCoke IV combines the conductive properties of natural round grain Calcined Fluid Petroleum Coke particles with the low permeability properties of grout. The Coke particles are specifically sized to form the main conductive structure of the electrically conductive grout. To enhance the conductivity properties of EnviroCoke IV, other forms of high quality carbon are added to the composite mixture. Further additives make installation easier by minimizing the apparent viscosity of the slurry. The additives insure the compatibility of EnviroCoke IV with equipment normally used to install cathodic protection systems.

EnviroCoke IV is designed specifically for use in the discharging zone on the outside of a conductive casing, with anodes and Loresco SC-3® inside the casing. By placing EnviroCoke IV around the casing on the outside, a conductive seal is formed which serves as an environmental precaution against interchange flow between water bearing formations in the discharging zones. When used in conjunction with PermaPlug,

EnviroCoke IV\*  
As used in the Loresco  
Replaceable Deep  
Anode System\*\*

For complete system  
information, refer to page  
24, system 4.



\*(United States Patent No. 5,080,773)

\*\* (United States Patent No. 5,026,508)

