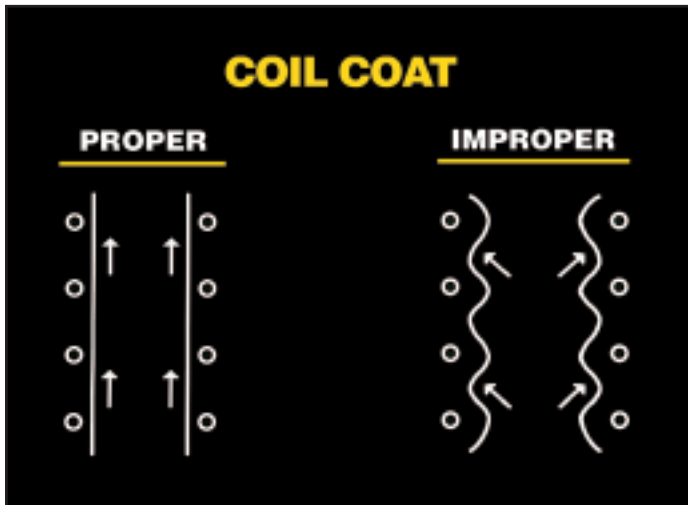


HOTLINE



EMSCO Grouting Services



Quality and method of your grout system can affect the life of your induction coils and furnaces

If your furnace requires a grout or coil coat surface against your induction coil, it is extremely critical to insure that the method of application and final surface are done properly. Improper application can result in reduced life of your induction furnaces and coils resulting in increased downtime and loss of production.

The grout face surface must be smooth to allow the working material to expand in a controlled direction. If the installation of the grout results in uneven or wavy surfaces, the working material can collect in these “pockets” and expand against the coil during expansion. If enough pressure is put against the coil, the results can be broken supports, stretched tubing, broken joints and out-of-round coils resulting in reduced efficiency of the melt system.

Most refractories will expand. Attempting to restrict or contain this natural growth will result in damage to both induction coils and furnaces. Castable furnaces will see premature failures on tops and bottoms due to this expansion along with damage to both side panels and aluminum frames if expansion is not controlled with a smooth and properly aligned grout surface and refractory system.

Steel frame or shell furnaces may see premature cracking on top castable segments, distortion of top steel rings and flat spots on coils due to extra pressure when coil is pushed against magnetic shunts.

Maintenance costs will increase, production time will be reduced resulting in decreased product and profits.



BULLETIN M15/1M/0408

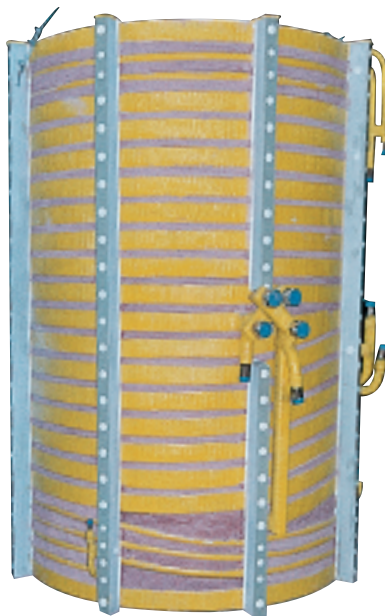
EMSCO offers professional and quality grouting services to existing rebuilt and new coils. Most induction coils can be grouted prior to installation into the furnace.

Only the highest quality materials are used in the grout systems that are applied. In addition to the standard straight grout surface, **EMSCO** can also apply the special tapered type of grout systems that are required for induction furnaces equipped with a Push-Out type system.

EMSCO also has recognized the need for special procedures depending on climate and location of your foundry. Because of these special or unique requirements, **EMSCO** has specially formulated grouts that allow you to properly work materials without fear of premature setting or hardening.

Contact your local **EMSCO** facility for details on your next coil repair or coil that requires the installation of a new grout face.

Custom grout systems are also available from all regional **EMSCO** facilities.



EMSCO is ready when you need us...every day.

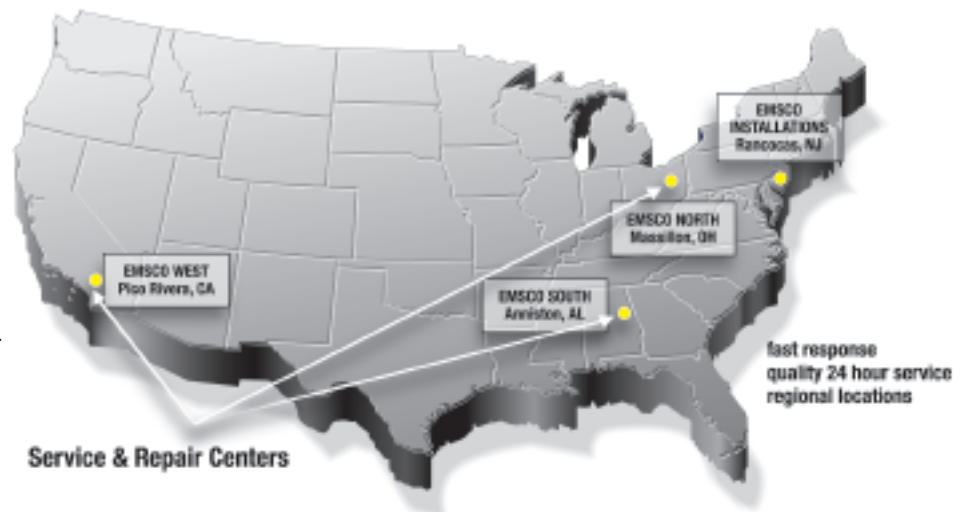
EMSCO's Commitment to you

KNOWLEDGE: EMSCO will begin each project with a customer-focused understanding of the problem to be solved and a soundly engineered approach to the solution.

COST: EMSCO will, when possible, offer more than one level of service and will explain the costs and compromises associated with each. Every option we propose will meet industry standards for safety.

QUALITY: EMSCO will understand and meet the quality expectations agreed to at the start of the project. Warranties will be explained and will set the standard for the industry.

OUR GOAL: EMSCO will provide quality services at reasonable prices so that our customers have the competitive edge in their markets.



NATIONWIDE TOLL-FREE NUMBERS

Repair Centers - 877.77.EMSCO (773.6726) | Installations - 800.858.7030

www.emsco.com