



INTERNATIONAL TECHNICAL CERAMICS, INC.

*Energy-Saving Ceramic Coatings and Kilns
Fibre Modules • Kiln & Furnace Repair Products*

ITC 213 CERAMIC COATING FOR METALS

ITC 213 will protect all metal parts from oxydation or reduction and other harsh environments such as high temperatures and proximity to molten metals, molten glass or glazes.

TO PREPARE SURFACE: Remove any metal scaling, loose rust, grease and dust. Also remove any paint on the surface of the metal. Sandblasting is not recommended nor using any kind of solvent such as kerosene, alcohol, etc. Use a wire brush, file, hacksaw blade or grinding wheel if possible. Rinse with plain water and wipe with clean cloth.

ITC 213 comes ready to use. MIX WELL AND APPLY, using a short bristle medium hard brush or foam paint edger or a cloth.

For large areas use a cup spraygun, available from a hardware store or ITC. In case of spraying, it is necessary to dilute the ITC 213 as follows:

To one pint of ITC 213 add 1/3 pint of water and mix well.

To one gallon of ITC 213 add 1/3 gallon of water and mix well.

ELECTRICAL ELEMENTS

New elements have a greasy residue left from the wire manufacturing process, which may cause the ITC 213 to flake off if not removed. One method is to pre-fire elements after stretching for 5 to 10 minutes to achieve at least cherry-red glow. If this is not possible, the elements can be heated in a furnace or kiln at 700° F for 30 minutes. Allow to cool.

The ITC 213 can be applied as described above or can be applied by dipping. Using a wide shallow pan, empty the ITC 213 into the pan and add 1/3 water, mixing well. Dip the entire element except for the lead wire into the ITC 213 mixture. After dipping, shake the element to remove excess coating and hang to dry for several hours or overnight. The elements are now ready to install.

Mailing Address

P.O. Box 1726
Ponte Vedra, FL 32004

Research & Development Center

325 Mealy Drive, Mayport Industrial Park
Atlantic Beach, FL 32233

Section V — Reactivity Data

Stability	Unstable	N/A	Conditions to Avoid	N/A
	Stable	N/A		

Incompatibility (Materials to Avoid)

N/A

Hazardous Decomposition or Byproducts

N/A

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? X Skin? X Ingestion? X

Health Hazards (Acute and Chronic)

Material is non-toxic; however, if inhaled, swallowed or painted on skin, can create health hazards.

Carcinogenicity: N/A NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure

Lung, skin, or eye irritation can occur if unprotected during application.

Medical Conditions

Generally Aggravated by Exposure Any pre-existing lung, skin, or eye disease will be aggravated with inadequate protection during application.

Emergency and First Aid Procedures

Wash eyes and body immediately upon contact.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Put in proper receptacles and dispose of in accordance with local, state, and federal laws.

Waste Disposal Method

This material if disposed will harden by outside temperature into solid form that is non-hazardous to nature.

Precautions to Be Taken in Handling and Storing

Keep container lids tightly sealed when not in use.

Other Precautions

Use OSHA approved air purifying respirator, safety goggles, work clothes and gloves during application.

Section VIII — Control Measures

Respiratory Protection (Specify Type) Air purifying respirator

Ventilation	Local Exhaust	Best	Special	N/A
	Mechanical (General)	Best	Other	Best

Protective Gloves

Advisable to use during application

Eye Protection

Safety goggles

Other Protective Clothing or Equipment

Standard work uniforms that protect skin

Work/Hygienic Practices

Attention to cleanliness and personal care will prevent problems.

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