

INTERNATIONAL TECHNICAL CERAMICS, INC.

Energy-Saving Ceramic Coatings and Kilns

Fibre Modules • Kiln & Furnace Repair Products

Tel: (904) 285-0200

Fax: (904) 273-1616

ITC KILN REPAIR PRODUCTS

ITC 100 HT Ceramic Coating

USE: To save fuel and to repair and protect all kiln interiors made of brick, castable, fibre blanket or fibre board and burner blocks and burner tips. To minimize glaze sticking on kiln furniture, such as setters, slabs and pins.

PREPARE SURFACE: Remove all debris, loose particles, dust, etc. from interior walls, door, crown and grooves behind electrical elements. Vacuum if possible. Immediately before applying coating, dampen these areas by spraying lightly with water.

MIX: To one pint of ITC 100 HT add 1/2 pint of water and mix well.
To one gallon of ITC 100 HT add 1/2 gallon of water and mix well.

APPLY: Using a spraygun, apply a thin coat on the dampened surface. A brush can be used, dipping the brush into water first each time. Spray or brush through elements. Spraying is preferable.

ITC 200 EZ Ceramic Repair

USE: Excellent for repairing broken, chipped or cracked brick or burner blocks, castable or fibre material and for filling in crevices.

PREPARE SURFACE: Apply ITC 100 HT and patch with ITC 200 EZ while wet.

APPLY: If necessary, thin with ITC 100 HT as prepared above. Using a spatula or similar tool, simply fill all cracks, holes, crevices and damaged areas, including areas behind electrical elements in need of repair. Allow to dry.

ITC 296A Ceramic Top Coating

USE: To obtain a higher degree of purity when firing porcelain, jewelry and other fine items. To further enhance kiln performance and to increase longevity of electrical elements.

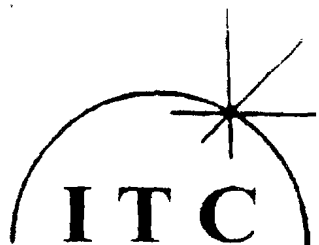
PREPARE SURFACE: Apply ITC 100 HT and ITC 200 EZ as directed above.

MIX: To one pint of ITC 296A add 1/2 pint of water and mix well.
To one gallon of ITC 296A add 1/2 gallon of water and mix well.

APPLY: Fire at least twice after application of ITC 100 HT and ITC 200 EZ. Spray or brush entire surface, including elements. Spraying is preferable.

Marketing Assistant
P.O. Box 1752
Ponte Vedra, FL 32084

Research & Development Center
P.O. Box 1752
Atlantic Beach, FL 32209



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ITC 100 HT CERAMIC COATING

ITC 296A CERAMIC TOP COATING

ITC 200 EZ CERAMIC FILL

ITC products will repair and extend the lifetime of all kiln interiors made of insulating fire brick, hard brick and fibre blanket. ITC 100 HT is the base coat followed by ITC 200 EZ, a patching compound for filling holes and crevices caused by broken and separated brick. ITC 296A is an optional finishing coat to achieve additional purity and more brilliant colors.

ITC 100 HT, sprayed to a thickness of 1/32" to 1/16", forms a protective crust-like surface on the brick and fibre. Apply to kiln furniture (shelves, setters, slabs, posts, pins) to minimize glaze sticking. In electric kilns lightly spray the ITC 100 HT on the elements also in order to prolong element life.

These energy-saving materials are easily applied within a matter of hours and outstanding results are attained. Following are just a few of the benefits that our ITC customers are experiencing:

SAVE FUEL: Depending upon extent of repairs, fuel savings can range from 10% to 55%, the average being 35%.

CUT FIRING TIME: Expect to decrease your firing time, perhaps by several hours.

IMPROVE QUALITY: Your ware will be more beautiful than ever, and seconds due to glaze sticking, kiln dirt and flying fibre will be drastically reduced.

QUICK PAYBACK: ITC products pay for themselves in a short period of time, perhaps within one or two firings.

THE APPLICATION IS SIMPLE: Surfaces to be treated should be free of grease, dust and loose particles. Remove debris from past firings and vacuum. Spray lightly with water. Empty the ITC 100 HT concentrate into a larger container. Fill the original pail with no more than 1/2 water and add to the ITC 100 HT concentrate; mix well. (You now have 1-1/2 times the amount you received.) Using 90 lbs. of pressure in your air compressor and a sandblaster/spraygun, spray roof, walls, door and floor. While still wet, patch with the ITC 200 EZ. Allow to dry overnight. After two or three firings apply the ITC 296A, using the same procedure as for the ITC 100 HT. Kiln shelves should be treated the same way and coated on edges, tops and bottoms.

Mailing Address

P.O. Box 1726
Ponte Vedra, FL 32004

Research & Development Center

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

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List)

ITC 100 HT

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name

INTERNATIONAL TECHNICAL CERAMICS, INC.

Emergency Telephone Number

904-285-0200

Address (Number, Street, City, State, and ZIP Code)

P.O. Box 1726

Telephone Number for Information

904-285-0200

Ponte Vedra FL 32004

Date Prepared

February 13, 1997

Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))

OSHA PEL

ACGIH TLV

Other Limits
Recommended

% (optional)

ITC 100 HT is made of non-toxic ceramic components.

Section III — Physical/Chemical Characteristics

Boiling Point

4000^o+

Specific Gravity (H₂O = 1)

N/A

Vapor Pressure (mm Hg.)

N/A

Melting Point

5000^o+

Vapor Density (AIR = 1)

N/A

Evaporation Rate

(Butyl Acetate = 1)

N/A

Solubility in Water

N/A

Appearance and Odor

Odorless ceramic paste

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)

4000^o+

Flammable Limits

N/A

LEL

UEL

Extinguishing Media

N/A

Special Fire Fighting Procedures

None. Material is used in high temperature applications as fire insulator.

Unusual Fire and Explosion Hazards

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
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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?
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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/Hygiene Practices

Attention to cleanliness and personal care will prevent problems.