



## **INSTALLATION INSTRUCTIONS FOR SPRAYING INTERNATIONAL TECHNICAL CERAMICS ITC 100HT ENERGY SAVING COATING**

This Engineering Standard provides the mixing and installation instructions for spraying International Technical Ceramics ITC 100HT coating STORAGE

ITC products must be stored on pallets or shelves and be kept between 40 F and 90 F (5 C and 30 C). Warm storage is recommended in extreme cold conditions.

All excess mixed material can be stored in the original airtight ITC containers and re-shelved. The containers must be sealed tightly to prevent material from hardening.

Label all premixed material so that additional water is not added and remixed.

### **EQUIPMENT**

The following is a list of equipment that is required for the veneering process:

1. 30 gallon or larger rubber container to mix the ITC material.
2. ½" drill motor or larger with long mixing attachment.
3. Rubber gloves
4. Graco Tex Spray RTX 1500 spray gun or equivalent.
5. Clean rags.

Note: Most equipment can be purchased at any home improvement store. MIXING

To mix, simply add ½ container of water to one full container of ITC 100HT. Use only clean potable water with temperatures between 40 F and 85 F (5 C and 30 C).

Mixing time needs to be sufficient to produce a uniform sprayable consistency. Do not add additional water. During application, additional mixing may be required to prevent settling.

### **CAUTION**

The following will adversely affect the properties of ITC products:

- Excessive water
- Dirty mixing equipment
- Cement contamination

- Dirty and/or hot water
- Admixtures
- Dirty spraying equipment

## **INSTALLATION**

1. ITC 100HT can be used as a final coat over ITC ITC 213, ITC 148 and ITC 200EZ. ITC 100HT can be used as a stand-alone product if applied over hard refractory, brick or ceramic fiber.
2. Remove and repair all loose and weakened brick and hard refractory.
3. Remove all dust from previously ITC coated and dried surfaces. Remove all debris, dust and grease from interior walls, doors, crown, floor and grooves.
4. Prepare the ITC 100HT for spraying per the mixing instructions by adding ½" container of water to one full container of ITC 100HT.
5. Spray entire surface with ITC 100HT using a minimum of 80 psi of air pressure. DO NOT RUSH and do not leave any areas uncoated. The thickness of the sprayed coating should be approximately 1/16" to 1/8" thick. The distance of the spray nozzle to the fiber surface should be approximately 16".
6. DO NOT OVER SPRAY. Too thick of an application will cause material to fail prematurely.
7. Allow to dry overnight.

NOTE: Do not use excessive heat to dry the coating during the first 24 hours after installation. Either use fans to move the air or simply leave it to dry overnight. The first firing should be started with low heat at first for approximately six hours. Do not exceed 600 F.

**\*\* After the spraying process is complete, the operation of any enclosed furnaces MUST BE REPROGRAMED to prevent over firing the furnace.\*\***