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"Q" Coating X

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Procedure # C-1  
Rev. 1 Date     

"Non-Q" Coating

SPECIAL COATING PROCEDURE NO. C-1

SCOPE Application of NUTEC #10 concrete curing and sealing  
compound.

REQUIREMENTS:

Refer to attached guidelines for application of NUTEC #10 and product data sheet.

REFERENCE DOCUMENTS

APPROVALS

ORIGINATOR Mark Wells

PROJECT C.E. [Signature]

TUGCO CA. [Signature] 10/14/83

CONST. P.M. [Signature] 10/14/83

REV. 1

DATE 10-14-83

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GARDE95-59 PDR

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## GUIDELINES FOR THE APPLICATION OF NUTEC #10 TO CONCRETE SUBSTRATES

### 1.0 SCOPE

1.1 Application on NUTEC 10 concrete curing and sealing compound.

### 2.0 SURFACE PREPARATION

#### 2.1 "Green" Concrete

2.1.1 "Green" concrete walls shall be cleaned by using compressed air to remove loose concrete and laitance.

2.1.2 "Green" Concrete floors shall be lightly wirebrushed, followed by compressed air, to remove loose concrete and laitance.

2.1.3 Any forming material transferred to the concrete shall be removed by wirebrushing.

### 3.0 APPLICATION PROCEDURE

#### 3.1 GENERAL CONDITIONS

3.1.1 NUTEC #10 containers shall be stored at temperatures between 40°F and 110°F and shall not be exposed to direct sunlight for a prolonged period of time. Temperatures may fall below or rise above normal storage temperatures to 0°F or 120°F. Respectively for an accumulative period of 14 days during shelf life of the product.

3.1.2 The amount of time required for curing increases with decreasing temperature. An accelerator may be added at temperatures below 60°F to facilitate the drying and curing processes. The accelerator is available in premeasured portions and shall be added as a third component to the base-cure mixture. Accelerator shall be utilized in accordance with manufacturing instructions.

Cure times for NUTEC #10 is as follows:

ST - 50°F-69°F - 72 hours

70°F-89°F - 24 hours

90°F and above - 18 hours

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3.1.3 All equipment used shall be kept in good condition and shall be comparable to the equipment listed in Section 3.2.

3.1.4 All equipment shall be cleaned properly before and after each use with the recommended solvent (Imperial's DL-6A universal Solvent).

3.1.5 NUTEC #10 Primer/Sealer shall not be applied under inclement weather conditions and not at surface temperatures below 50°F.

3.1.6 Concrete to be coated shall be shaded. Epoxy coatings have a tendency to blister when exposed to direct sunlight.

#### 3.2 APPLICATION EQUIPMENT

##### 3.2.1 Airless

3.2.1.1 Use standard industrial spray equipment such as Graco, Binks, or DeVilbiss using 30:1 pump ratio with 65-85 psi inbound pressure and a .016 to .019 fluid tip.

##### 3.2.2 Conventional

3.2.2.1 Pressure pot equipment with a water trap.

3.2.2.2 Separate atomizing air and fluid pressure regulator.

3.2.2.3 Air supply: Compressor capable of supplying a continuous volume of air at 60 to 80 psi to the nozzle of each gun.

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3.2.2.4 Recommended air hose - 5/16" or 3/8" I.D.

3.2.2.5 Recommended material hose - 3/8" or 1/2" I.D.

3.2.2.6 Industrial spray gun such as Binks #18 with 66 PB air cap, 66 fluid tip and 66 needle size or DeVilbiss MBC 60D.

3.2.3 Brush

3.2.3.1 A clean, high quality brush may be used to coat small areas or concrete inaccessible for spraying.

3.2.4 Roller

3.2.4.1 A short to medium knap roller shall be used.

#### 3.3 APPLICATION

3.3.1 Flush equipment with Imperial's #DL-6A Universal Solvent or Imperials #DL-56 (Cellosolve) Solvent prior to use.

3.3.2 Mixing instructions - slowly mix by power agitation or by hand the entire volume of the cure component with the entire volume of the base. If an accelerator is used, add the premeasured portion to the base-cure mix and mix slowly. Avoid rapid agitation which may result in air entrapment. Do not vary proportions.

3.3.3 Thin the NUTEC #10 mix with 10-40% #DL-56 solvent (Cellosolve). Thinning minimizes air entrapment, eliminates film irregularities, enhances penetration, and prolongs the pot life of the material.

3.3.4 As a guide, if using conventional spray, regulate the air pressure: 60-80 psi to gun; 10-20 psi to pot.

NOTE: Required pressures may vary with temperature of hose length.

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- 3.3.5 As a guide, during spray application, apply material as a heavy, wet coat, in even, parallel passes overlapping each pass by 50%
- 3.3.6 Apply NUTEC #10 at a spreading rate of approximately 350-400 sq. ft./gal. Avoid excessive build up which will cause a "glazing" affect after drying.
- 3.3.7 NUTEC #10 has a pot life of approximately 1 hour (at 75°F). No material shall be applied which has exceeded its pot life. If this has occurred, there is an increase in the viscosity of the material, a noticeable heat of exotherm and applied material will "crawl" and refuse to penetrate the concrete. All material thus applied shall be removed from the concrete with solvent and a clean cloth. All equipment shall be cleaned immediately and any remaining NUTEC #10 (expired) shall be discarded. Caution: Storage of NUTEC #10 containers at high temperatures or in direct sunlight will greatly reduce its pot life.

NOTE: Pot life stated above for unthinned coating is the recommended time and should be used as a guideline for coating usage time, however, actual pot life may be longer. For unthinned coating or coating thinned less than 50%, the actual pot life is determined by applicability of the coating.

- 3.3.8 During application all areas found to contain sags, surface irregularities, or excessive buildup of NUTEC #10 shall be removed with solvent and a clean cloth and fresh NUTEC #10 applied.
- 3.3.9 Flush Spray equipment periodically with Imperial's DL6A Solvent or DL-56 to avoid build up of material in the hoses.
- 3.3.10 Clean up all equipment immediately following application with Imperial's #DL-56 cellosolve solvent or Imperial's #DL-56A Universal Solvent.

## NOTE:

- Do not apply NUTEC #10 curing compound to surfaces which visible surface moisture or standing water is present.
- Refer to manufacturers product data sheet for general information.
- Material may be applied at temperatures above 80°F. when applications are made at temperatures above 80°F care must be taken to insure pot life not exceeded.



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TITLE:  PROTECTIVE COATING OF CONCRETE SURFACES  con#1 con#2 #3 #4 #5 #6	ORIGINATOR: <u>Mark Wells</u> <u>8/11/82</u> DATE REVIEWED BY: <u>NK Roth H. Pappas</u> <u>8-12-82</u> DATE <u>TKGCS QA</u> <u>8/13/82</u> DATE APPROVED BY: <u>D.O. Franklin</u> <u>8-17-82</u> CONSTRUCTION PROJECT MANAGER DATE			
0.1 1.0 1.1 1.2 1.3  2.0 2.1 2.2 2.3  3.0 3.1 3.2 3.3 3.4 3.5  4.0 4.1 4.2 4.3 4.4 4.5  5.0 5.1 5.2	TABLE OF CONTENTS INTRODUCTION PURPOSE SCOPE GENERAL DISCUSSION  DEFINITIONS OF TERMS, ABBREVIATIONS AND SYMBOLS TERMS ABBREVIATIONS SYMBOLS  SPECIAL ITEMS AND OPERATIONS QUALIFICATION OF PERSONNEL SAFETY REQUIREMENTS INSTRUMENTS AND THEIR USE DOCUMENTATION RECEIVING, STORAGE, AND DISPENSING OF COATING MATERIALS  PROCEDURE FOR COATING PREPARATION OF SUBSTRATES AND COATING MATERIAL PREPARATION OF COATING MATERIALS APPLICATION OF SURFACER AND FINISH COATING FINAL ACCEPTANCE TESTING HOLD POINTS  SUPPORTING INFORMATION ATTACHMENTS REFERENCES			



TXX-4249

August 10, 1984

QUESTIONS RELATIVE TO ALLEGATION NO. 4

- a) Provide the basis for area figure in item 30 of CEL.

Response:

- a) A takeoff was made from design drawings to determine number of Richmond Inserts inside the containment building. The area on the exempt log represents the total area of all Richmond inserts.



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August 10, 1984

QUESTIONS RELATIVE TO ALLEGATION NO. 6

- a) How much area is involved? Provide the basis for the area. Identify the NCR/DCA that places this item in the CEL.

Response:

- a) The information requested is not available. These areas are not on the exempt log.



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August 10, 1984

QUESTIONS RELATIVE TO ALLEGATION NO. 7

- a) What is your method for incorporating updated manufacturer's recommendations into CPSES procedures?
- b) When were the recommendations in Imperial's January 16, 1983 letter incorporated into CPSES procedures?

Response:

- a) Information received from coatings manufacturers are incorporated into application procedures by issuance of a Document Change Notice or formal revision to the procedure.
- b) The only recommendation made on January 19, 1983, was to pay particular attention to application parameters outlined in the letter. CCP-40 was already in accordance with these application parameters.