



**SURTREAT®**

**OKINAWA  
AIR BASE**

# CASE STUDY

## PROBLEM

Corrosion protection, strength improvement, and surface protection against moisture.

## STRUCTURE

Munition Bunkers - ECM (Earth Covered Magazine) - PHASE 1

## OUR SOLUTION

Surtreat's solutions are developed for the purpose of reducing costs, duration and increasing longevity and durability of cement based substrates restoration and protection outcomes.

Surtreat's solutions modify the chemical and physical properties of existing substrates to:

- Increase concrete strength
- Reduce water permeability
- Inhibit water-soluble chloride activity
- Maintain and moderate concrete pH
- Inhibit corrosion of the embedded reinforcement

Our solutions are applied as reactive penetrating materials to combine chemically within the concrete microstructure and deposit on the embedded steel components. Surtreat materials are environmentally safe and all of our solutions are permanent.

## THE PRESCRIPTIVE SOLUTION

Fulfill the requirements under the UFGS 09.97.23.17. Install SURTREAT Corrosion Inhibitor System comprised of:

**SURTREAT TPS XII** - Vapor Phase Corrosion Inhibitor

**SURTREAT TPS II** - Liquid Phase Migratory Corrosion Inhibitor

**SURTREAT Repel WB** - Surface Protection Agent

## RECOMMENDED SURTREAT MATERIALS

TPS  
XII

TPS  
II

REPEL  
WB

## WORK PERFORMED

### Surface Preparation

Surface abrasion by grinding. Pressure washing.

### Materials Application

Following the surface preparation operations SURTREAT materials were applied by spraying to clean / dry concrete surfaces at the prescribed rate and allowed to penetrate.

## RESULTS AND OBSERVATIONS

The project was completed on time with specified results. No unexpected / unusual events or anomalies were reported.



# DEMO / TRIAL APPLICATION



We invite your comments, questions, and inquiries.  
Reach us at one of the below.



# SURTREAT TPS XII APPLICATION



We invite your comments, questions, and inquiries.  
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# SURTREAT TPS II APPLICATION



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# SURTREAT REPEL WB APPLICATION



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