

Vector™
Galvashield® XP
Project History

Condominium Rehabilitation
Satellite Beach, Florida



Structure: Sandpiper Towers
 Condominium Balconies

Specifier: Bryant Engineering
 Melbourne, Florida

Location: Satellite Beach, Florida, USA

Contractor: P.R. Dupree Construction
 Melbourne, Florida

Project Description:

The condominium balconies were suffering from corrosion damage due to the airborne chlorides from the Atlantic Ocean. The level of deterioration was such that rather than perform substantial patching, Bryant Engineering determined it was more economical to remove and replace the deteriorating balconies.

Project Solution:

The new balconies were cast with ready-mix concrete containing a corrosion inhibiting admixture. Combined with a waterproof coating, this was the strategy to provide long term protection to the new balconies. The remaining concern with this strategy is the interface between the new concrete balcony and the existing chloride contaminated slab. The engineer was concerned that accelerated corrosion could occur beneath the sliding door threshold and back into the units. Corrosion reaching further back into the unit would be costly to repair and create a major disruption. To address this concern, Galvashield XP anode units were tied to the existing bars along the interface and embedded into the new concrete to provide localized corrosion protection and extend the life of the repair.

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