

# CASE HISTORY

## Iceland Residential Concrete Repair and Renovation

### DATE

March - June 2010

### DISTRIBUTOR

Hagædi EHF

### LOCATION

Reykjavik

### PRODUCTS

MCI® Fiber Grenades  
MCI® Mini Grenades  
MCI® -2006 NS  
MCI® -2241

### PROBLEM

Being built before World War II, the house had various structural problems. No repairs had been completed for over 70 years. Due to the age and years of freeze-thaw cycles, the concrete had become extremely deteriorated and began to leak, crack, and spall. In some areas, extreme spalling exposed steel reinforcement that was heavily corroded.

### APPLICATION

MCI® -2006 NS and MCI® Mini Grenades were added to repair mortars in order to rehabilitate the spalling concrete. MCI® Fiber Grenades were used along with Xypex Waterproofing Admixture in the replacement of the concrete gutters around the entire house. MCI® -2241 was applied to the cured concrete gutters to ensure waterproofing. All of the concrete repairs totaled over 50% of the house.

### CONCLUSION

The combination of the corrosion inhibitors, fibers, and waterproofing admixture provides a long service life for all repairs completed.



**MIGRATING CORROSION INHIBITORS**  
FROM GREY TO GREEN

