

Concrete Durability

Concrete surface scaling is a common problem with flatwork exposed to winter conditions in Utah. In this presentation, you'll hear about Code requirements for durable concrete, proper finishing techniques, and the importance of curing to achieve scale resistant concrete. Also, learn about the common causes of surface scaling and how deicing chemicals exacerbate exposure conditions. Most importantly, hear how to minimize the risk of surface scaling.

Learning Objectives:

1. Identify Code requirements for scale resistant concrete
2. Define the best finishing practices to achieve scale resistant concrete
3. Evaluate surface scaling and identify root cause(s) of surface scaling
4. Identify material and construction options to minimize the risk of scaling

BIO

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Dr. Basham is a professional engineer and president of KB Engineering, LLC located in Cheyenne, WY. He specializes in concrete design and construction, concrete technology, troubleshooting concrete and materials, non-destructive testing, forensic engineering and repairs, and concrete research. He is an ACI Fellow and a member of the following ACI committees: 302 – Concrete Floor and Slab Construction, 306 – Cold Weather Concreting and 347 – Formwork. Kim routinely teaches seminars and workshops for the American Concrete Institute, World of Concrete, American Society of Concrete Contractors, and various concrete associations across the US. He has published over 150 articles and is a contributing writer for *Concrete Contractor* magazine.

