

WELCOME

ICRI

25th Anniversary

2013 Spring Convention

New Solutions
To
OLD PROBLEMS

Delamination

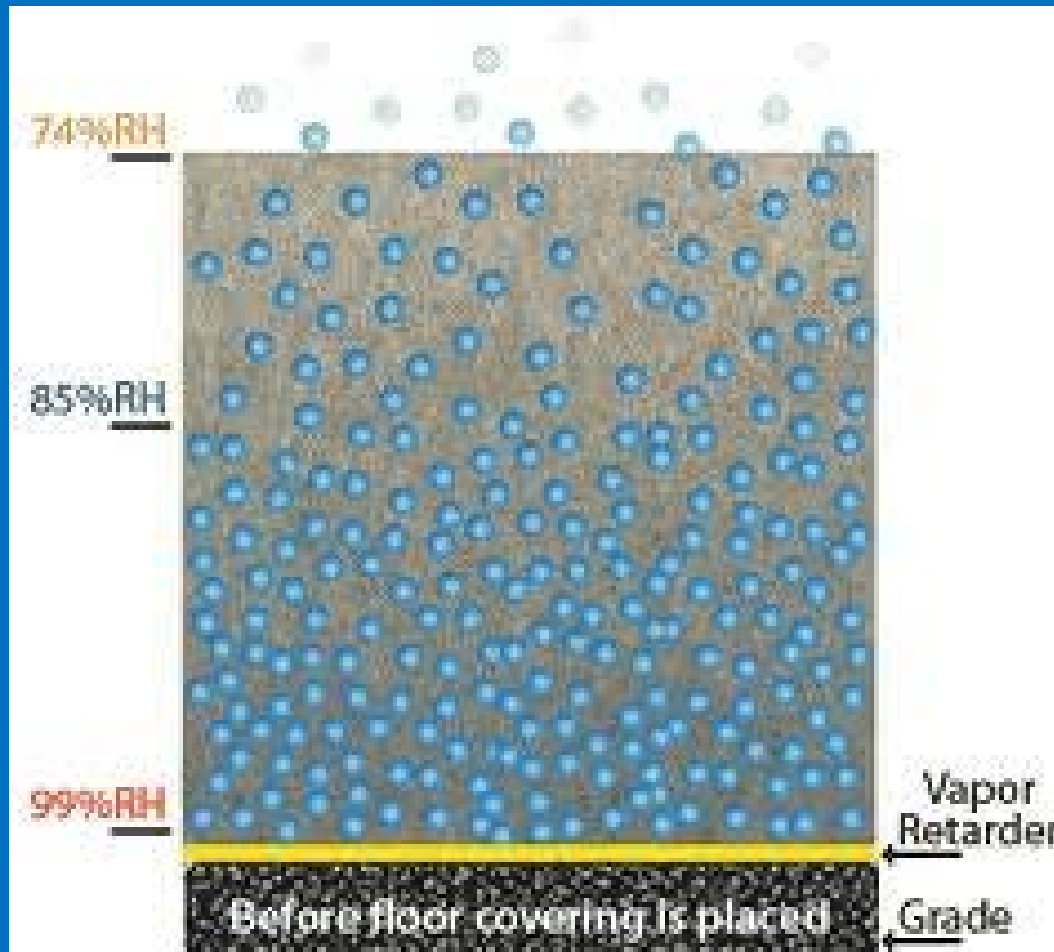




HOW MOISTURE AFFECTS WOOD FLOORING

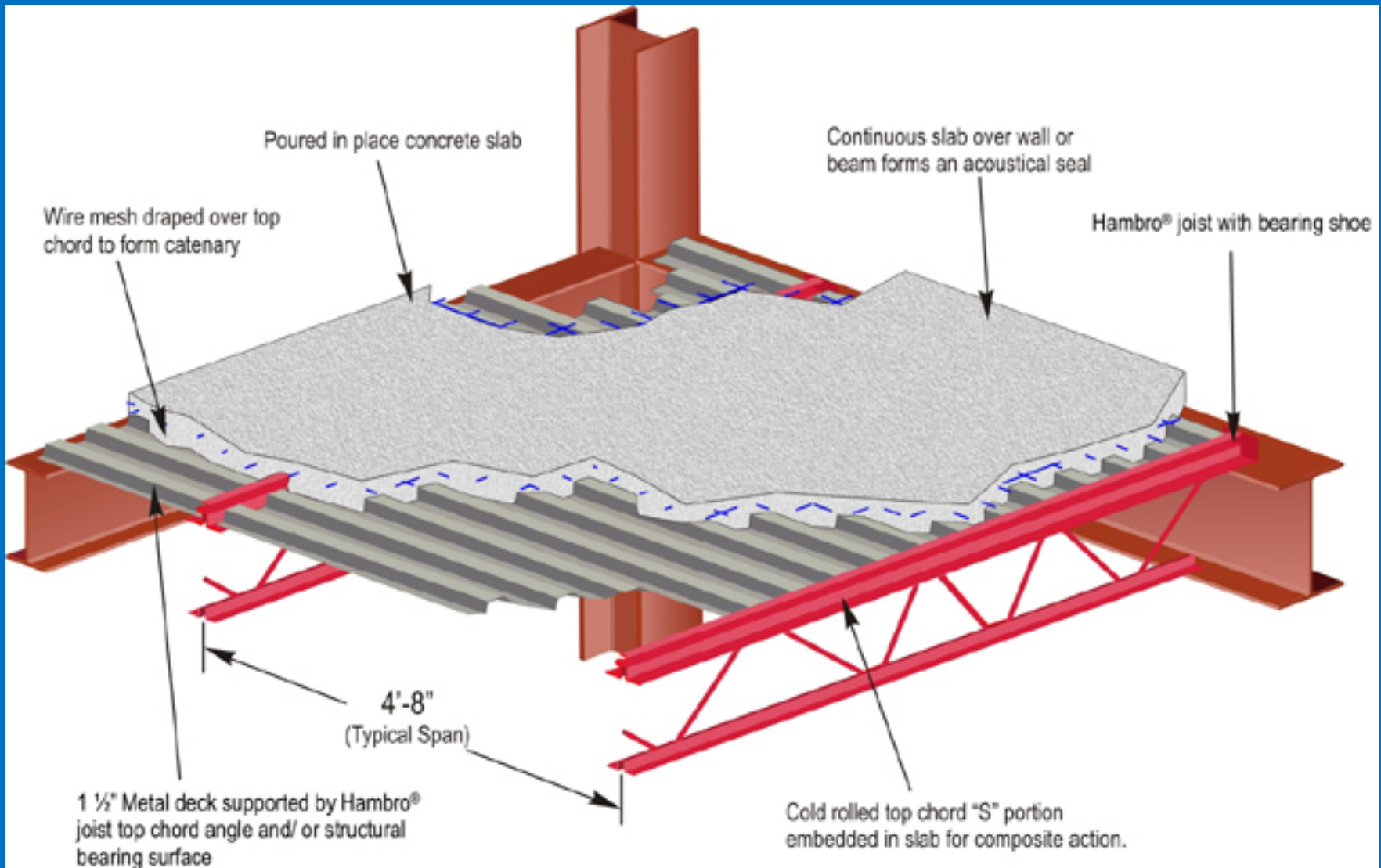


Moisture Vapor



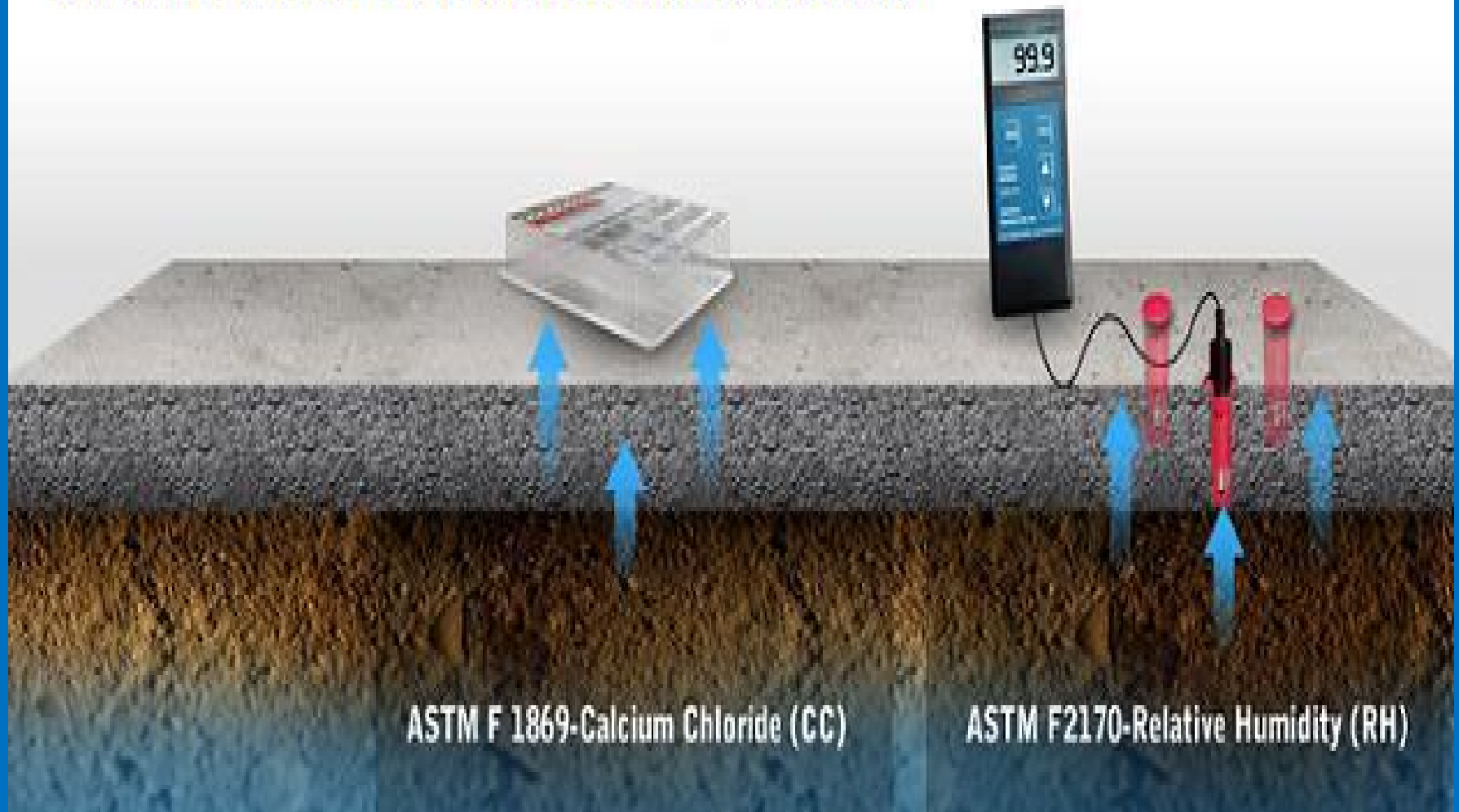








Calcium Chloride vs Relative Humidity Testing



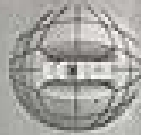
Water Soluble Elements

METALS

CHLORIDES



Guideline No. 310.2-1997



TECHNICAL GUIDELINES

Prepared for the International Concrete Repair Institute January 1997



**Concrete Surface Preparation
CSP 1 - 9**

Surface Preparation

Proper Surface Preparation: Whose job is it ?



Specifier (A/E)?

Contractor ?

Manufacturer



The quality of the substrate preparation determines the adhesive strength between the substrate and the installed system to prevent cohesive failure of the “vapor” barrier

Special Considerations for Fast Track Construction Projects

“Open-air” environmental conditions

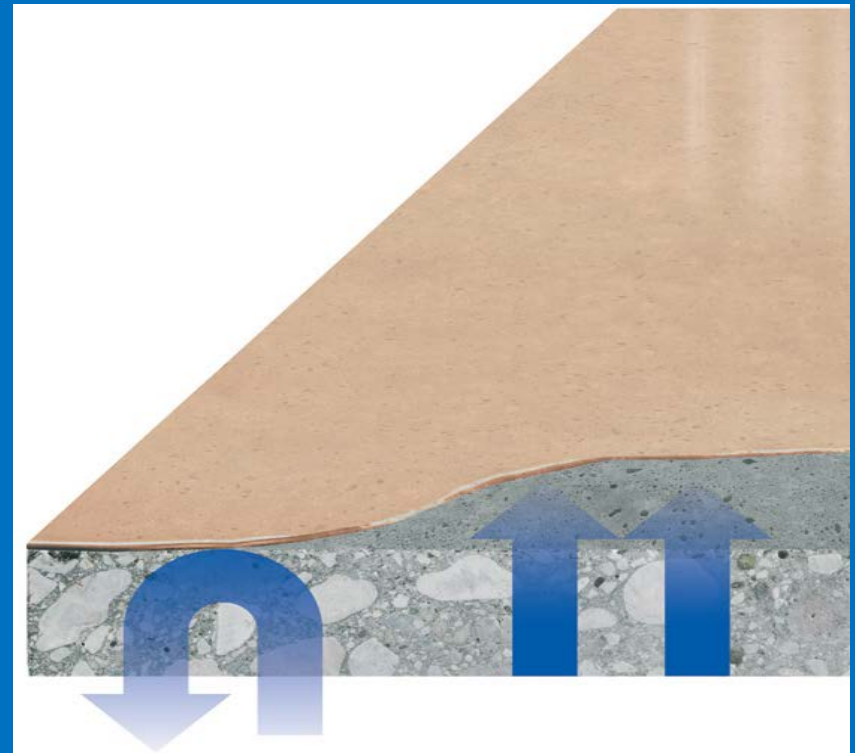
Concrete substrate quality: Concrete quality must comply with relevant ACI & ASTM Standards.

- Ideal water/cement ratio: < 0.45
- Surface profile: CSP3 or higher, open pored, as per ICRI Guideline No. 310.2-1997
- Use of surface hardeners: not permitted
- Use of curing agents: only film forming types that are removable with surface prep
- Petrographic examination: used to exclude ASR issues

Typically applied, 100% solids, zero VOC epoxy vapor barrier

Properties

- Effective vapor barrier – reduces MVER from 25 to 3lbs or less and RH from 100% to 97% or less
- 100% Solvent free
- Low viscosity
- Stops moisture and water vapor
- No broadcast required
- Allows a chemical bond to epoxy coatings if recoated within 16h to 5 days.
- Great adhesion to damp or green concrete (5 days and older)



Climatic considerations for application of moisture tolerant Leveler

Application temperature:	50 – 90°F <ul style="list-style-type: none">• low temperatures lead to slow strength development and delayed water resistance• high temperatures accelerate the set and increase the risk of cracks
Temperature changes:	should be minimized during application
Influence of direct sunlight:	May lead to fast skin formation and accelerated setting and cracking
Wind:	Withdraws water from the surface leading to skin formation and cracking
Rain:	Standing water must be avoided until LEVELER has developed sufficient strength, ~ 48h @ 70°F







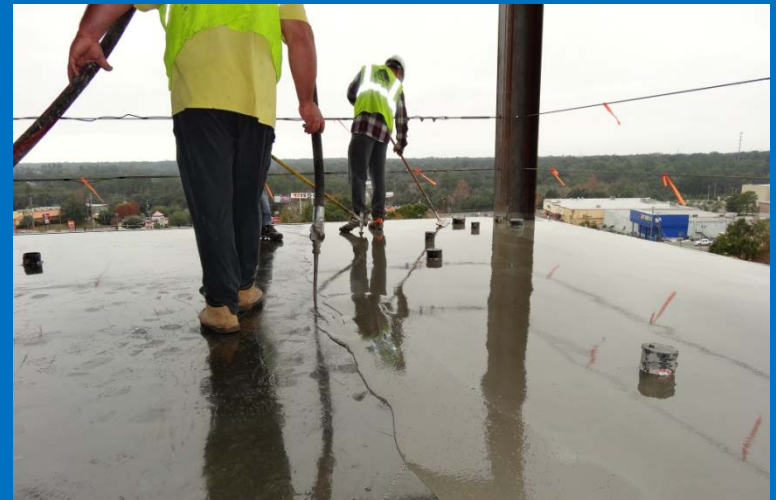


Typically Applied - Moisture Tolerant - Moisture Mitigation



General uses

- Surface levelling of 1/8 to 1 inch + (3 – 30 mm +)
- Substrate for membranes, waterproofing systems, flooring systems, tiles, VCT, floor tiles, wood etc.







Thank you

Steve Bradway