QUALITY CONTROL IN INSULATION APPLICATIONS

PRESENTER
LYLE ORTH
COOL-ROOF SYSTEMS
1. **Pre – Bid / Estimation**
   1. How your bid/estimate is the key to successful projects and completion on time

2. **Job site procedures to improve QC**
   1. How job site record keeping contributes to QC

3. **Self-Inspection and Final Cleanup**
   1. Using Self-inspection as Applicator Training tool
Review of Quality Control (QC)

- QC before during and after
- Improve QC procedures
  - Pre bid analysis
  - Job site
    - Record keeping
    - Sample testing
    - Clean up
- Equipment maintenance
- Consistency
Pre Bid

- Estimate and bidding process
- 12 SPFA design considerations and guide specifications
- Allow for contingency
- Allow for additional materials (include in addendum along with bid)
- **Do not ass-u-me.**
- **Verify code compliance**
On the Job Site

- Your Company will be remembered by how well you address these concerns at the start of work
  - Equipment/Material staging
  - Review of the work with the G/C, Owner, Supervisor
  - A review of Job Site Safety and Application requirements for this material/application with your crew
  - MSDS or other information
  - YOUR CLEANUP PLAN
While spray foam insulation typically has very few if any material related issues, CYA is the best policy.

Multiple benefits;
- Material Coverage
- More precise labor cost tracking
- Production rate tracking
- Eliminates “freeway footage” issue common with other insulation materials
On the Job Site - Application

- Temperature and Humidity, always a concern
- Start up mixing/circulation though the hoses.
  - Some material must be thoroughly mixed and circulated before the application can start.
  - Some materials require pre-heating in the drums
  - Make sure your equipment is fully operational and the GUN IS CLEAN
  - Cold Climates, keep the hose off the ground
On the Job Site- Application, cont.

- Foam application thickness
  - Define tolerances
  - Define minimum thickness at any location
  - WATCH SINGLE PASS FOAM APPLICATION THICKNESS ON CLOSED CELL FOAM

- The Details;
  - Hidden corners, Tubs, double shear walls, headers, rim joist
  - Verify applied thickness
  - Doors, windows, access panels
  - Caulking or single component for small cracks

- Clean up: one of the top reasons you will be remembered.
Summary

- Establish your own QC procedures
  - Have your applicators help
  - Develop your own inspection check list for each type of material.

- Use SPFA guides (AY series)
  - Different Guides for Different applications
  - Estimating Guidelines
  - Equipment Guidelines

- Know your local code requirements!!!!!!!!
Summary

- Follow manufacturers recommendations
  - In-place performance based on their recommendations

- Keep accurate and extensive records
  - CYA
  - In event of problem, help determine cause and cure

- Application
  - Continuous training- Use to develop new applicators
  - Clean and fully operational equipment is critical to successful applications