

QUALITY CONTROL IN INSULATION APPLICATIONS



PRESENTER
LYLE ORTH
COOL-ROOF SYSTEMS

Key Learning Points



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

Job Site Records



- 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 you 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