



Time is Money

***Cure Acceleration
as a Means***



***Bruce Foster
Mica Corporation***



Why Cure Acceleration?

- Accelerate Quality Assurance
- Improve Quality
- Reduce Inventory & Lead Times
- Eliminate Hot Room Expense



What is Cure Acceleration?

- Water-Based Primer Coating
- Clear
- Excellent Adhesive Properties
- Amazing Cure Accelerant

Cure Accelerator Use:



Sealant Film

PU-Based Laminating Adhesive

Cure Accelerator

Ink

Base Film

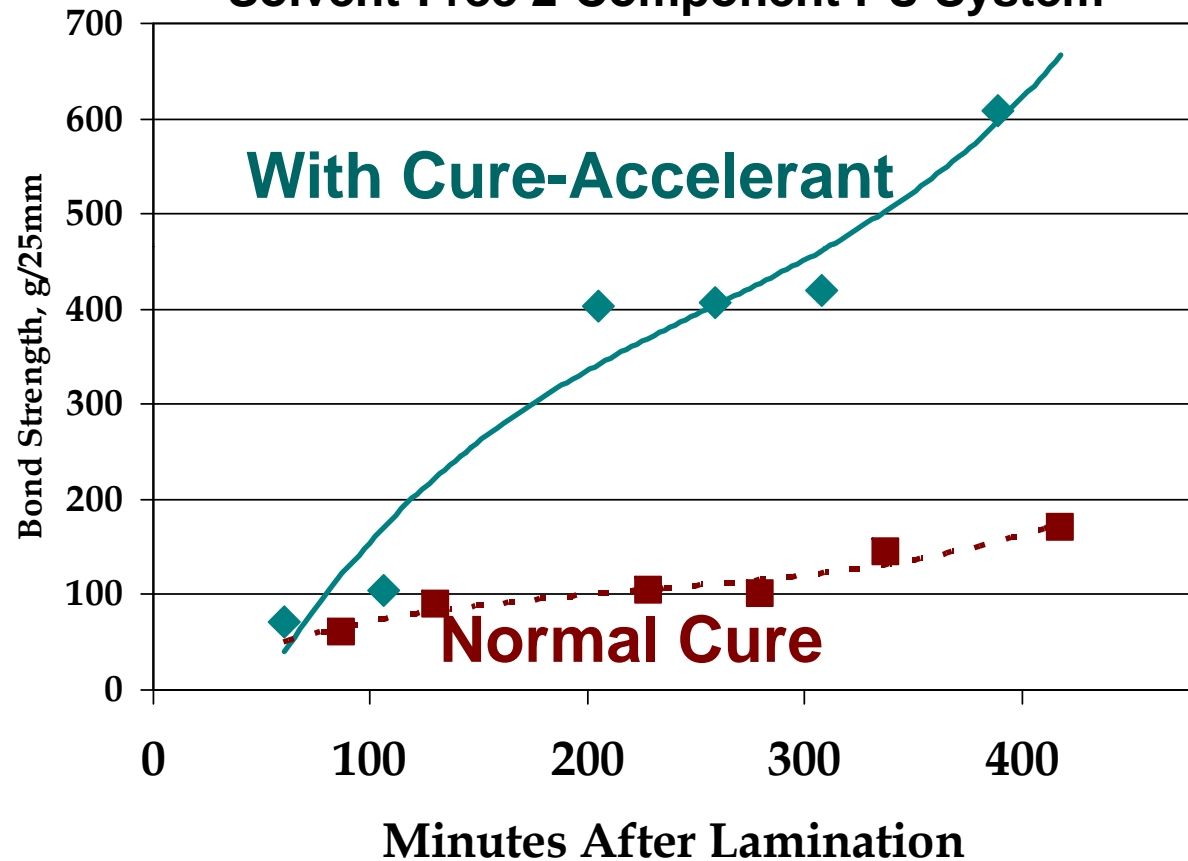


Cure Accelerator Use:

- Mix 50/50 with Water and/or Alcohol
- Apply Over Inks
- Apply ~2 wet g/m²
- Dry & Wind-Up
- Laminate as Usual

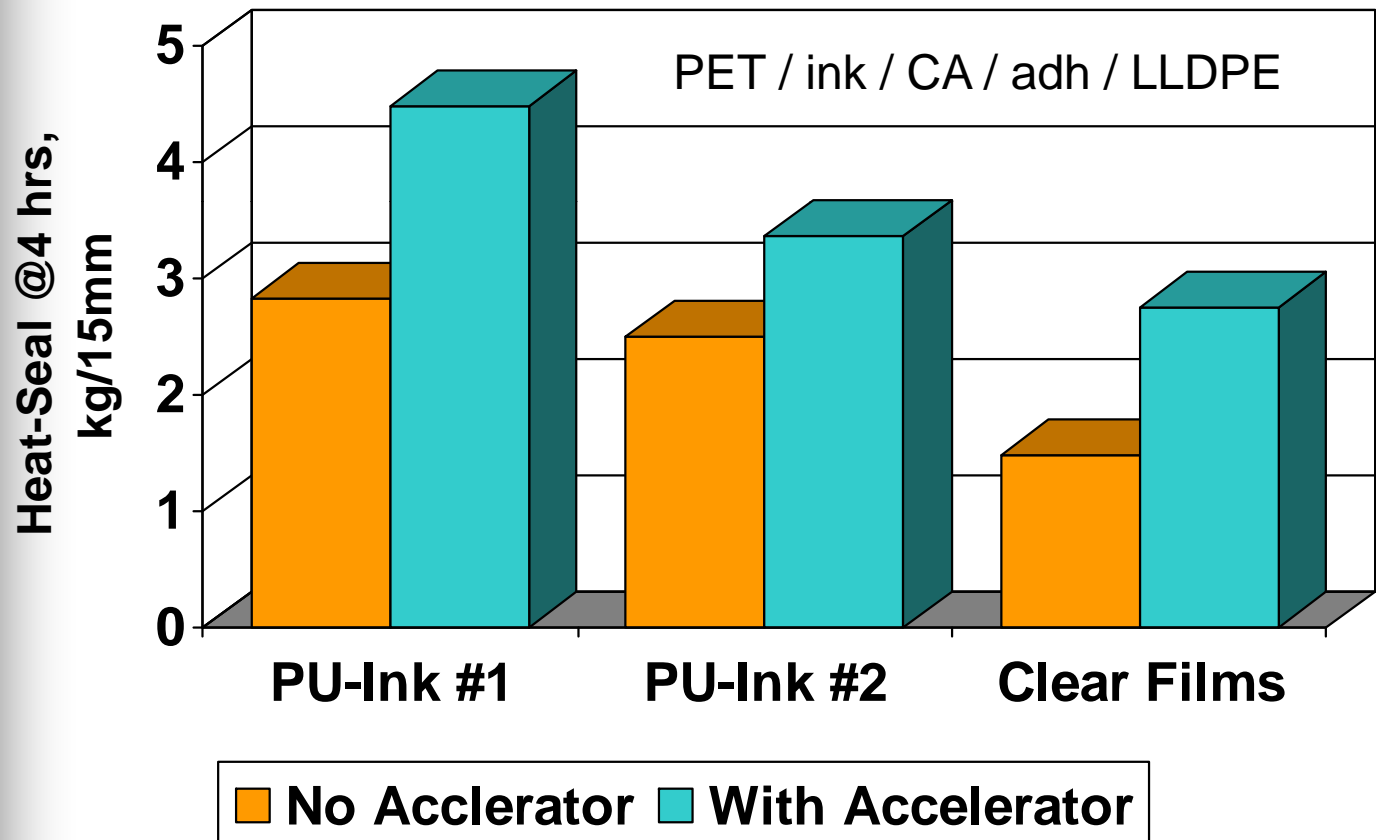
Typical Cure Results

Solvent-Free 2-Component PU System



Recent Trial Results:

Solvent-Based 2K-PU Adhesive





Cure Acceleration Results:

- With solvent-free laminating adhesives:
 - QC & slitting possible in ~2-hours
 - Fully cured <24 hours
- With solvent-based laminating adhesives:
 - QC & slitting possible immediately
 - Fully cured <8 hours



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Potential \$Savings\$

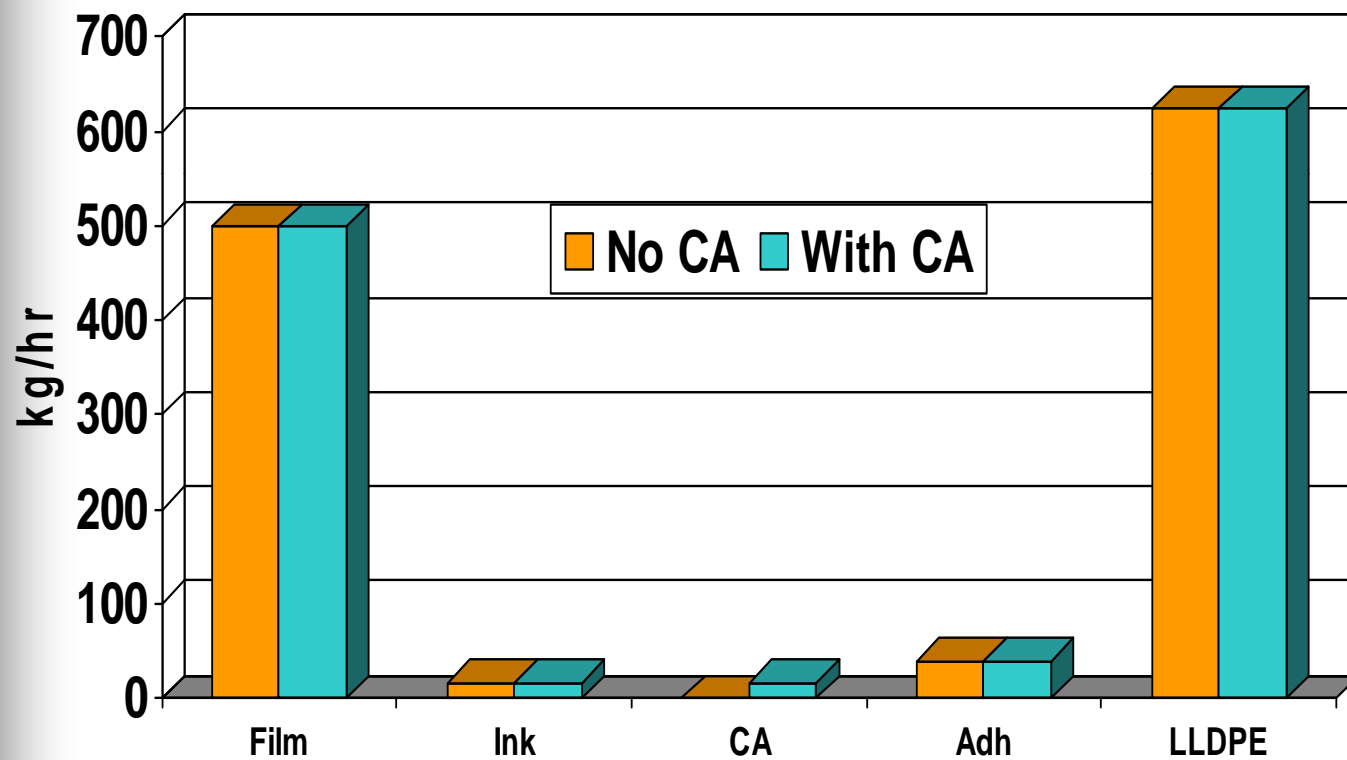
■ Bases:

- Film / ink / CA / Adh / LLDPE
- 1.3-meter wide
- 200-mpm
- ~1200-kg/hr raw materials

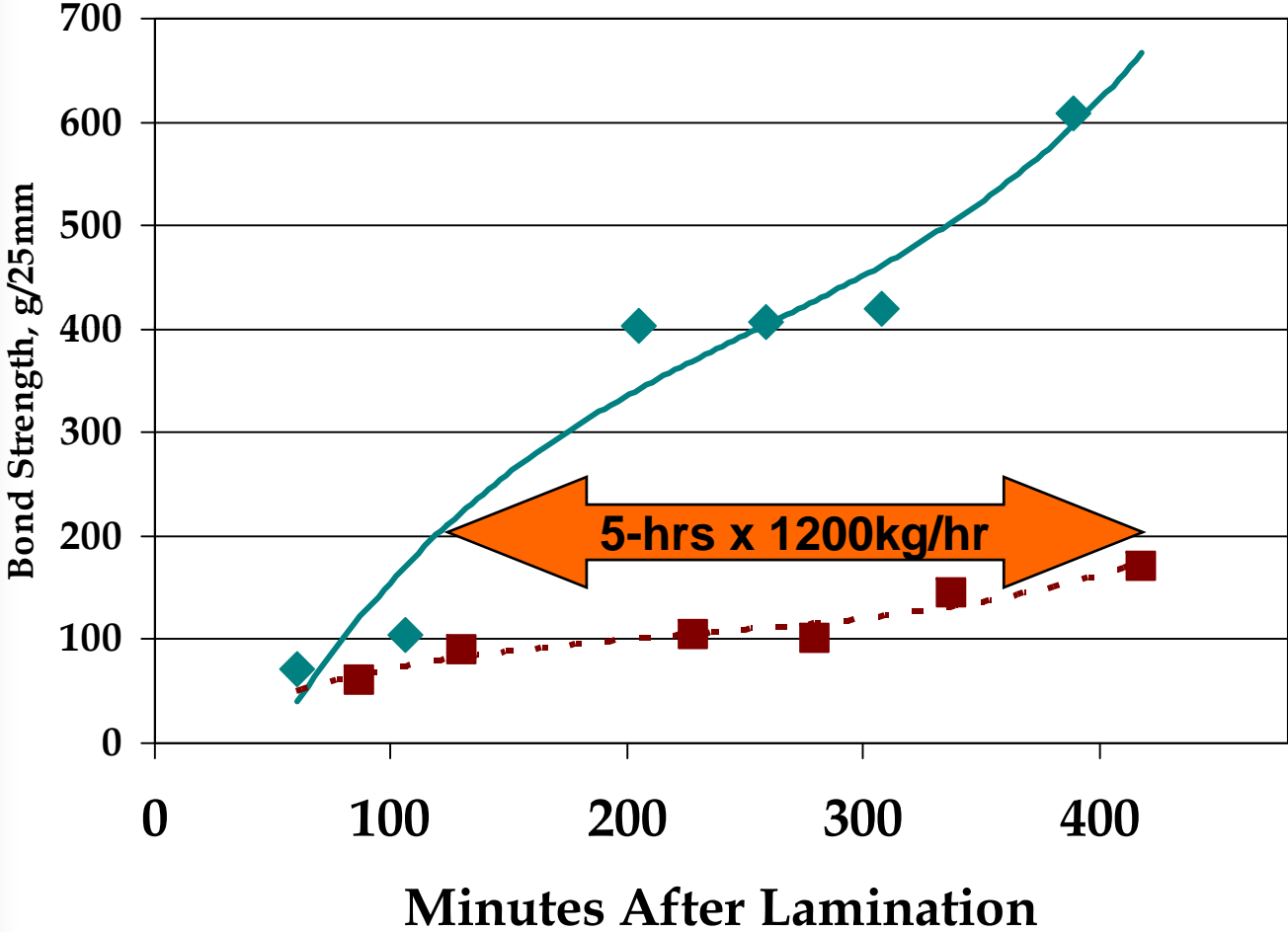


Potential Savings

Materials Useage



Potential Savings:





Potential Waste Eliminated:

- 5 hrs ~ 6 metric tons
- 12 hrs ~ 14 metric tons
- 2-days ~ 58 metric tons

Approximate Cost:

- 1-kg/hr of cure accelerator



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Potential Inventory Reduction:

- 4 Days ~ 115 metric tons
- Resulting lead-time reduction



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Eliminate Hot Room Expense

- Estimated hot room expense:
 - Varies widely, depending on location.
 - Estimates: \$300 - \$1200 / month
 - This offsets a significant % (~5 to 30%) of the cost of using cure accelerator.





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***Save Time,
Save Money,
& Smile!***





Thank You!



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