

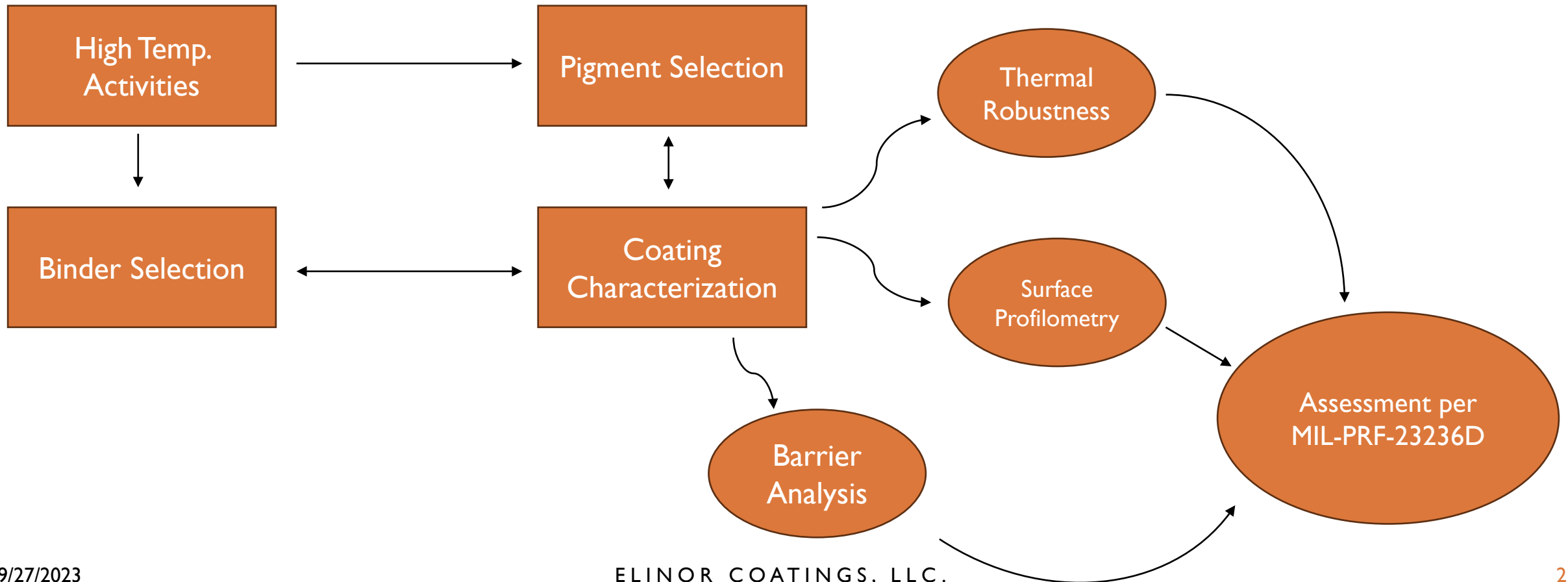
# ULTRA HEAT RESISTANT PRIMER INTRODUCTION

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# DEVELOPMENT MAP FOR ULTRA HEAT RESISTANT PRIMER





# TEST CONDITION ASSESSMENT

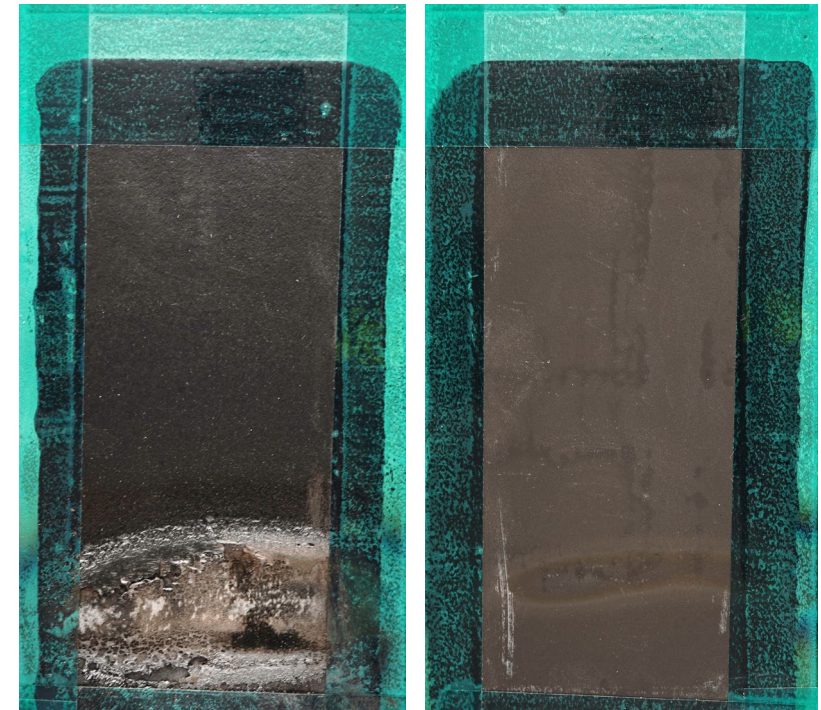
## TEMPERATURE PROFILE COATED STEEL WELDING



Before Welding  
19.9C (67.8F)

During Welding  
244.3C (471.74F)

## VISUAL ASSESSMENT



Commercial Control  
After Welding

Elinor Formulation  
After Welding



# CURRENT STATUS

- Finalizing paperwork
- Selected chemistries of interest for the use at high T
- Selecting additives
  
- Starting formulations with partners (Northern and Fincantieri) for testing coupons generation
- Compiling testing evaluation criteria
  - High T resistance
  - Weathering
    - Immersion/corrosion testing



# QUESTIONS REGARDING ULTRA HEAT RESISTANT PRIMER

- What is the allowable  $\Delta E$  after high temperature exposure ?
- Any concerns regarding outgassing in reference to materials which are allowed in MIL-PRF-23236D ?
- What are some characteristics of an ideal Ultra Heat Resistant Primer which are not addressed by the current existing technology ?
  - i.e. application, major failure mechanisms