



Skid Resistant Overlay of Steel Deck

By Don Carney, PE
Lewis County Public Works
Lewis County, Washington



Skid Resistant Overlay

Methyl Methacrylate Overlay

Coughlin Bridge
Onalaska, WA
Lewis County
(north elevation)



Skid Resistant Overlay

Methyl Methacrylate Overlay

Timber Deck
Rotting and
in Need of
Replacement



Skid Resistant Overlay

Methyl Methacrylate Overlay



Skid Resistant Overlay

Methyl Methacrylate Overlay

Fast Application and Curing (< 1 hour per layer)

Wide Application Temperature Range (14°F - 90°F)

Steel Compatible

Skid Resistant

Strong Bond (> 250 psi)

Light Weight (3 - 4 lb per sq. ft.)

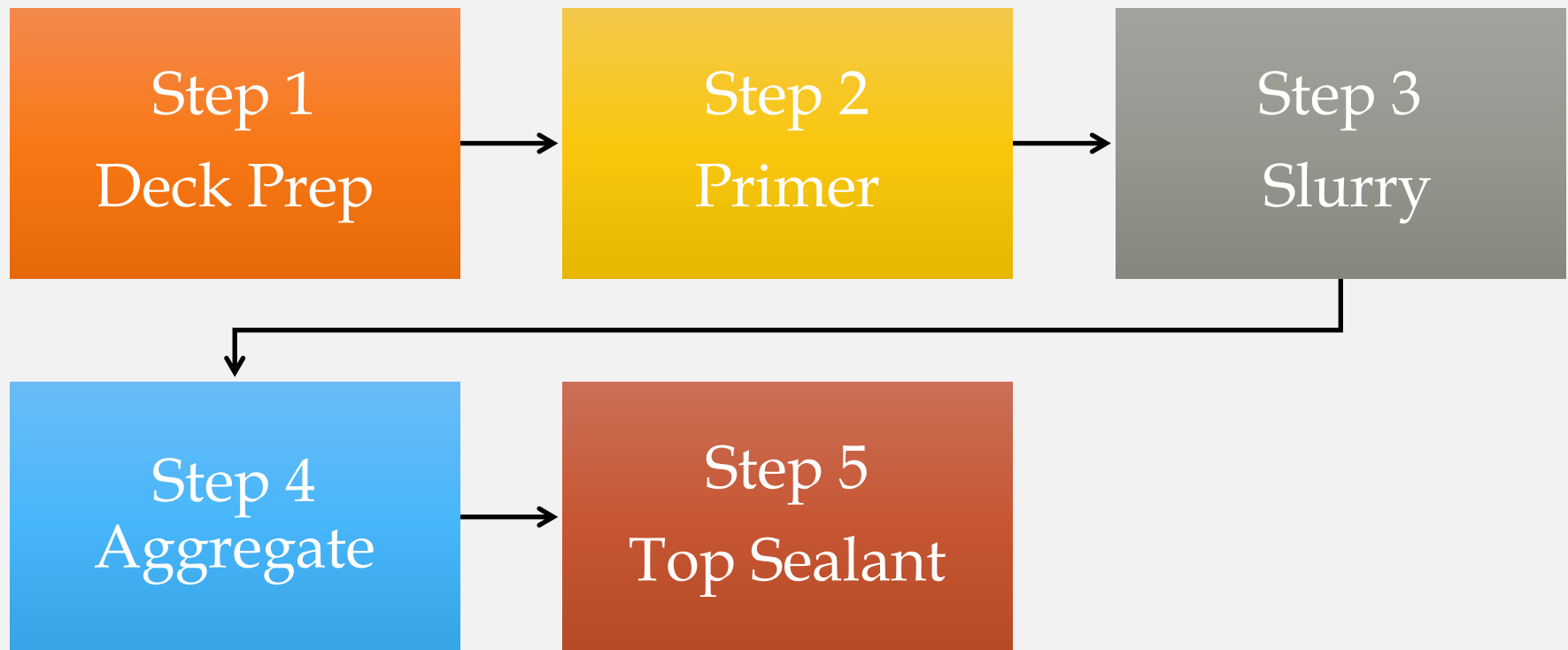
Freeze Thaw and Chemical Resistant

Very few tools or know-how required, manageable



Skid Resistant Overlay

Methyl Methacrylate Overlay



Skid Resistant Overlay

Methyl Methacrylate Overlay



Step 1
Deck Preparation



Step 2
Apply Primer

Skid Resistant Overlay

Methyl Methacrylate Overlay



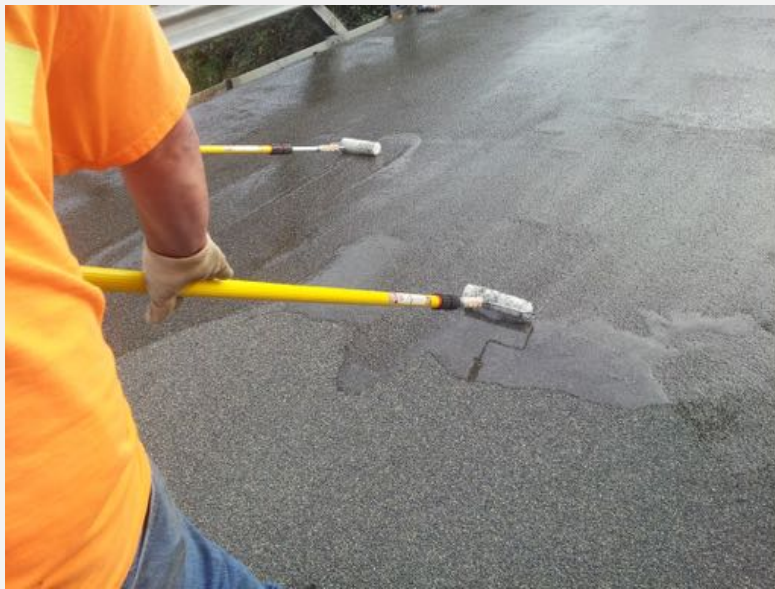
Step 3
Apply Slurry



Step 4
Broadcast Aggregate

Skid Resistant Overlay

Methyl Methacrylate Overlay



Step 5
Apply Topcoat



Finish

Skid Resistant Overlay

Methyl Methacrylate Overlay



Clean Up



Aggregate Size Comparison

Skid Resistant Overlay

Methyl Methacrylate Overlay



Field Testing Bond Strength



Results



donald.carney@lewiscountywa.gov

Product provided by:
Transpo Industries, Inc., T-18 MMA Slurry Overlay

