EAST HADDAM SWING BRIDGE

T-48 CHIP SEAL EPOXY OVERLAY

Route 82 over the CT River

Between Haddam and East Haddam, CT
Swing Bridge
East Haddam, CT
View from Northern Marina
Site of East Approach Before Work was Started.

Looking Up Stream. Pier 2 Grillage in Foreground.

Caisson for Pivot Pier.

Pile Driver at Work at Pivot Pier.

Looking Towards East Bank of River.
Looking Toward East Abutment During Construction.

Looking On East Abutment During Construction.

Looking West During Construction of Piers.

Looking Down on Pivot Pier During Construction.

Laying Granite at Pivot Pier.
West Abutment and Pier 1 with Earth Filling Started.

West Abutment Before Earth Filling was Placed.

West Abutment and Pier 1.

Fixed Spans on False Work.

Excavation for New Location of West Approach.
Concrete Filled Grid Deck Over Center Equipment Room
Center Pivot Components
Center Pivot – Panoramic View
East End Wedges
Typical Deterioration – Underside of Deck
Removal of Over Fill Concrete and Joint Material
Prepared Surface Prior to Sealer Application

- Removal of over pours
- Repair of deteriorated concrete
- Welding of grid deck seams
- Removal of epoxy joint material
- Fill joints with T-48 Chip Seal Epoxy mixed with aggregate
High Molecular Weight Methacrylate Crack/Surface Sealer
# Sealate® (T-70-10 & T-70 MX-30)

## Physical Properties *

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit of Measure</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T-70-10</td>
<td>T-70 MX-30</td>
</tr>
<tr>
<td>Viscosity</td>
<td>&lt;20 cps (mPa.s)</td>
<td>&lt;25 cps (mPa.s)</td>
</tr>
<tr>
<td>Tack Free Time</td>
<td>4-6hrs @ 70F</td>
<td>5-6hrs @ 70F</td>
</tr>
<tr>
<td>PCC Bond Strength</td>
<td>615 psi (4.2 MPa)</td>
<td>615 psi (4.2 MPa)</td>
</tr>
<tr>
<td>Tensile Elongation</td>
<td>3-5%</td>
<td>30%</td>
</tr>
</tbody>
</table>

* To be used as general guidelines only
Mixed Sealer Poured onto Deck
Gravity Penetrating Sealer Covered with Sand for Temporary Skid Resistance
Shot Blast Excess Cured Sealer on Deck Surface
For Application of Epoxy Overlay
One Half of Bridge Prepared for Overlay
# T-48 Chip Seal

## Physical Properties *

<table>
<thead>
<tr>
<th>Properties</th>
<th>Unit of Measure</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neat Resin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pot Life (@70°F)</td>
<td>15-30 min</td>
<td>AASHTO T237</td>
</tr>
<tr>
<td>Tensile Adhesion (to concrete)</td>
<td>&gt;250 psi (&gt;1.7MPa)</td>
<td>ACI 503R</td>
</tr>
<tr>
<td>Tensile Elongation</td>
<td>45% min</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Chip Seal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wet Skid-Resistance</td>
<td>50 min</td>
<td>ASTM E274</td>
</tr>
</tbody>
</table>

* To be used as general guidelines only
Application of Mixed Epoxy with Notched Squeegees
(Approx. 40 mils Thick)
Application of Wear Resistant, High Friction Broadcast Aggregate
Removal of Excess Aggregate Before Second Application of Epoxy and Aggregate
Finished Bridge Deck – Center Span
CONTACT INFORMATION

MICHAEL S. STENKO
mstenko@transpo.com
Transpo Industries, Inc.
20 Jones Street, New Rochelle, NY 10801
Tel: 914-636-1000 I Fax: 914-636-1282
www.transpo.com

SETH BURGESS, P.E.
Seth.Burgess@ct.gov
Connecticut Department of Transportation
Transportation Engineer III
Bureau of Highway Operations
District 2 - Bridge Maintenance
C: (860) 593-4158
O: (860) 388-3366