

## Adfil®Strux & Adfil®Sinta Synthetic Fiber User Guide

Category	Macro Adfil®Strux 90/40	Macro Adfil®Strux 3040	Macro Adfil®Strux BT50	Micro Adfil®Sinta M2219	Fibrillated Adfil®Sinta F19
Primary Purpose	<ul style="list-style-type: none"> <li>• Post – crack performance</li> <li>• Replaces temperature and shrinkage reinforcement</li> <li>• Alternative to low and moderate dosage of steel fibers</li> <li>• 70 to 80% reduction in plastic shrinkage cracks</li> </ul>	<ul style="list-style-type: none"> <li>• Post – crack performance</li> <li>• Replaces temperature and shrinkage reinforcement</li> <li>• Alternative to low and moderate dosage of steel fibers</li> <li>• 70 to 80% reduction in plastic shrinkage cracks</li> </ul>	<ul style="list-style-type: none"> <li>• Post – crack performance</li> <li>• Replaces temperature and shrinkage reinforcement</li> <li>• Alternative to moderate and high dosages of steel fibers</li> <li>• 70 to 80% reduction in plastic shrinkage cracks</li> </ul>	<ul style="list-style-type: none"> <li>• Protects concrete when tensile strength is at its lowest</li> <li>• Reduces the formation of plastic shrinkage cracking</li> <li>• Cost effective control for plastic shrinkage prevention</li> </ul>	<ul style="list-style-type: none"> <li>• Protects concrete when tensile strength is at its lowest</li> <li>• Reduces the formation of plastic shrinkage cracking</li> <li>• Cost effective control for plastic shrinkage prevention</li> </ul>
Dosages	3 to 7.5 lbs. per cubic yard	3 to 7.5 lbs. per cubic yard	7 to 15 lbs. per cubic yard	0.5 to 1.5 lbs. per cubic yard	1.5 to 3 lbs. per cubic yard
Approvals & Acceptance	<ul style="list-style-type: none"> <li>• UL approval for D700 – D900 assembly's</li> <li>• ICBO approval</li> <li>• DOT approved in 14 states</li> </ul>	<ul style="list-style-type: none"> <li>• UL approval for D700 – D900 assembly's</li> <li>• ICBO approval</li> <li>• DOT approved in 14 states</li> </ul>	<ul style="list-style-type: none"> <li>• Fibers for slab on grade applications, not for composite metal decks</li> </ul>	<ul style="list-style-type: none"> <li>• Fibers for slab on grade applications, not for composite metal decks</li> </ul>	<ul style="list-style-type: none"> <li>• Fibers for slab on grade applications, not for composite metal decks</li> </ul>



## Adfil®Strux Synthetic MacroFiber User Guide

### Applications

- Slab-on-grade
- Composite metal decks
- Thin overlays
- Paving
- Replacement for steel fibers (contact Grace Representative for dosage rates)
- Any place temperature and shrinkage steel is required

### Performance

- Offers 3-dimensional protection (wire is only 2 dimensional)
- Equal or better **post-crack** performance when compared to properly installed welded wire fabric or light rebar
- Adds plastic shrinkage crack protection (which wire does not)
- Improves abrasion, impact and fatigue resistance of the concrete
- Can be pumped

### Contractor Benefits

- Replaces traditional reinforcement and eliminates labor cost to install
- No more worries about wire that is not positioned properly
- No need for reinforcement inspections
- Allows for easier placement of concrete (no tripping on the wire)
- May allow for tailgating the concrete as opposed to costly pumping
- Eliminates wire placement issues when placement of concrete using laser screed is desired

### Value

- Reduces in-place cost of reinforcement
- Accelerates project schedule and potentially reduces number of subs on the project
- Reduces potential of accidents associated with falls on welded wire fabric
- Removes hassle factors associated with scheduling and handling of wire