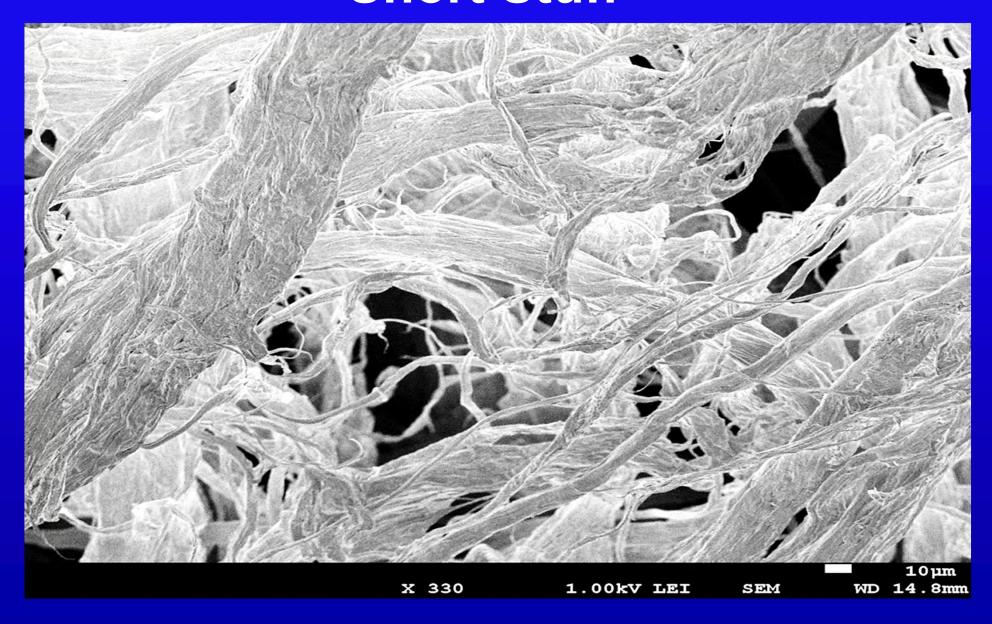
Improving Impact Resistance in Architectural Stone and Stucco with Short Stuff® Grades ESS50F and E505F

MINIFIBERS, INC.

Short Stuff®



MINIFIBERS.COM

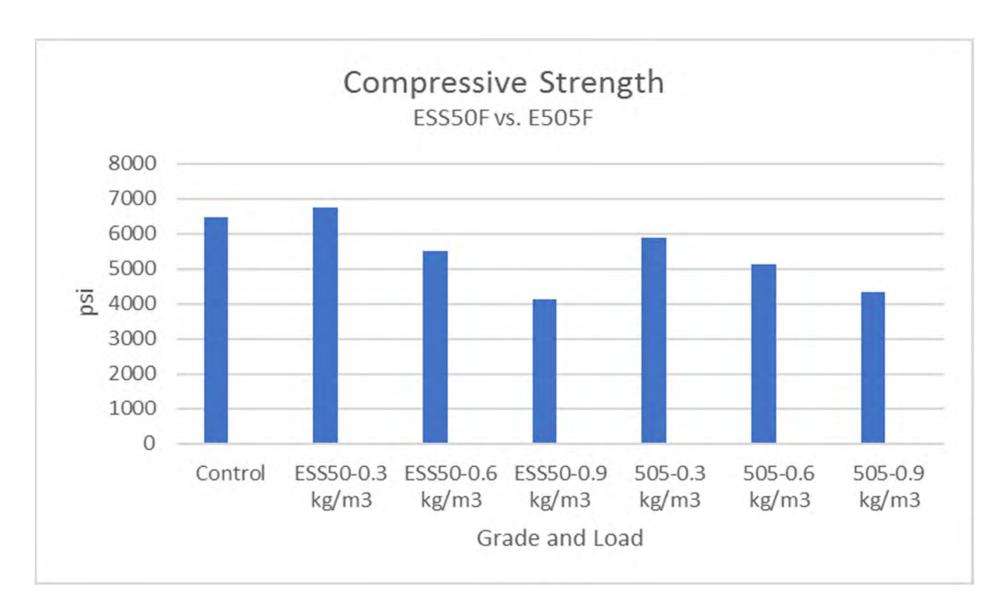
Testing at MTSU

- An architectural stone mix was tested for:
 - Compressive strength
 - Impact Resistance

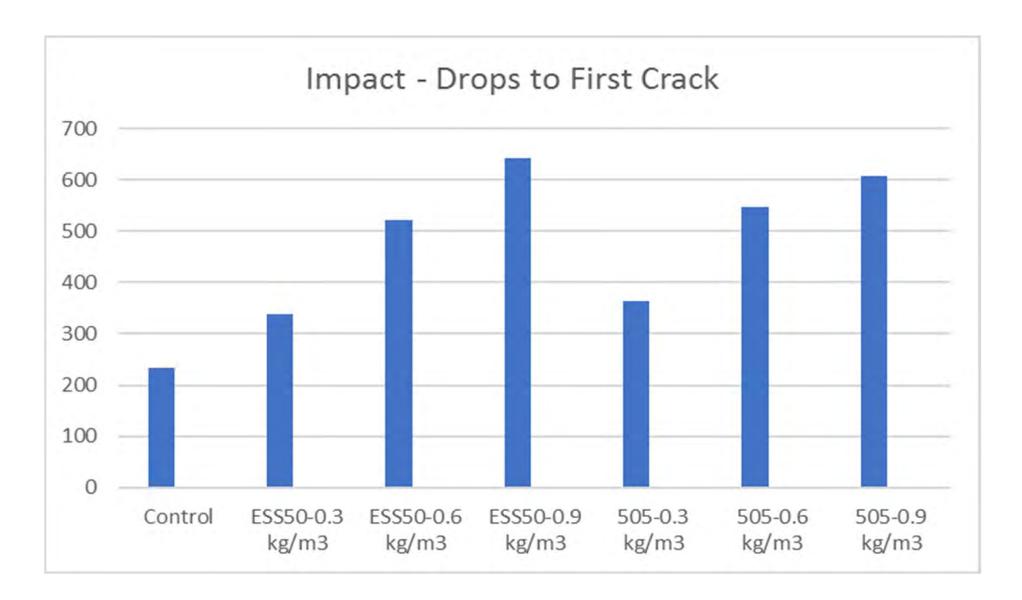
Mix Design kg/m³

Portland Cement	569
Ohio RiverSand	1,707
Water	144
Air	2%
w/c ratio	0.253

Compressive Strength



Impact Performance



Conclusion

- Loaded at 0.3 kg/m³, Short Stuff® ESS50F improved impact resistance by over 50%
 - Compressive strength was unchanged
- Adding more ESS50F increased impact resistance dramatically, but decreased compressive strength
- Results with E505F were similar, but with less gain in impact resistance, and greater loss of compressive strength

Short Stuff[®] Grades ESS50F & E505F are available from:

MINIFIBERS, INC.

Telephone: 423-282-4242 info@minifibers.com

MINIFIBERS.COM