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(a) (b) (c)
Figure 1 -- Sludge cakes (a) before drying, (b) after drying at 105 °C (221 °F) and (c) after incinerating at 800 °C (1472 °F)

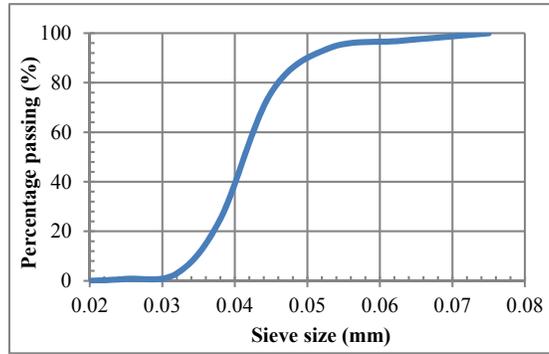


Figure 2 -- Particle size distribution curve of the SA (*Note: 1 mm = 0.0394 in.*)

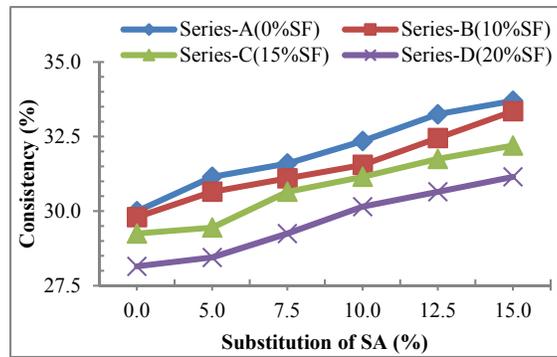


Figure 3 -- Consistency of the specimens with various percentages of SA and SF added

Physical and Mechanical Properties of Mortars Containing
Incinerated Sludge Ash and Silica Fume

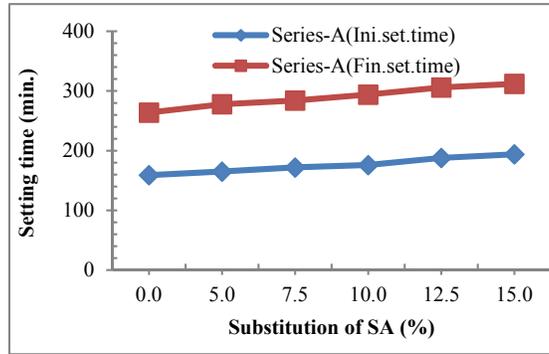


Figure 4 -- Setting time for the specimens with various percentages of SA and 0 % SF added (*Note: 1 mm = 0.0394 in.*)

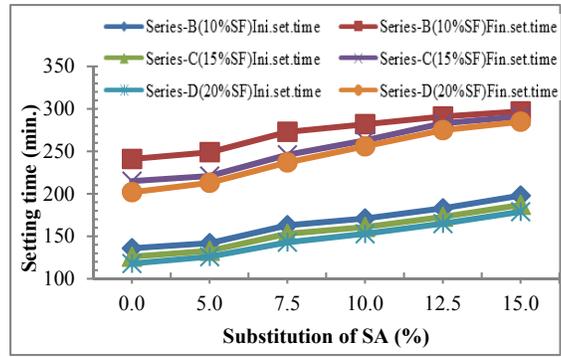


Figure 5 -- Setting time for the specimens with various percentages of SA and SF added (*Note: 1 mm = 0.0394 in.*)

Physical and Mechanical Properties of Mortars Containing
Incinerated Sludge Ash and Silica Fume

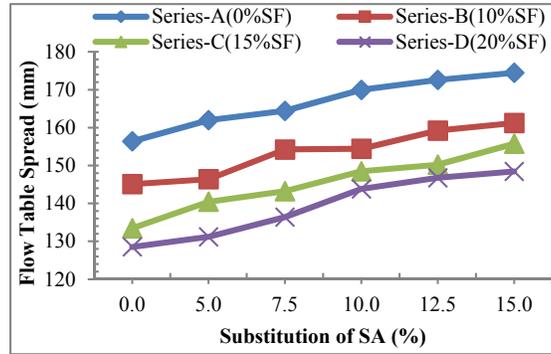
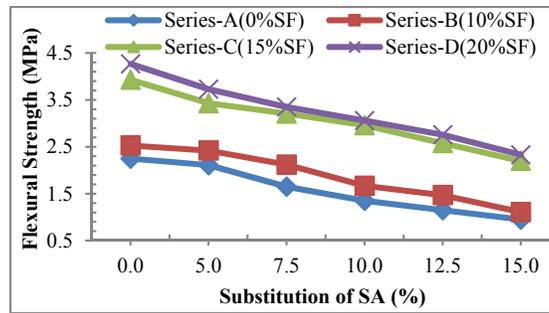
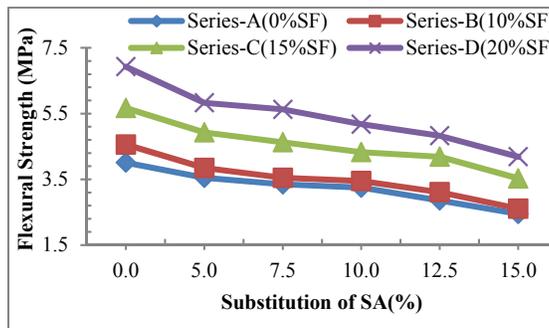


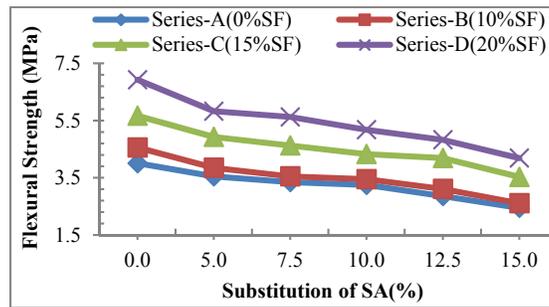
Figure 6 – FTS value of the specimens with various percentages of SA and SF added (*Note: 1 mm = 0.0394 in.*)



(a) at 3-days



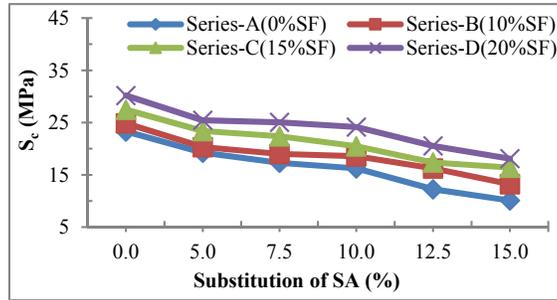
(b) at 7-days



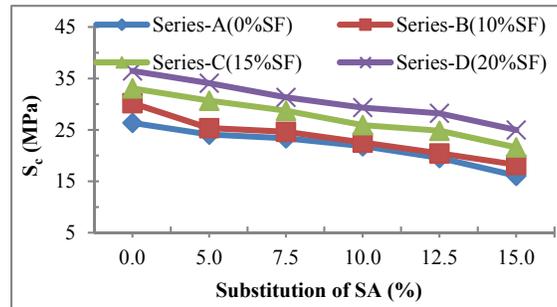
(c) at 28-days

Figure 7 -- Flexural strength of the specimens with various percentages of SA and SF (*Note: 1 MPa = 145 psi.*)

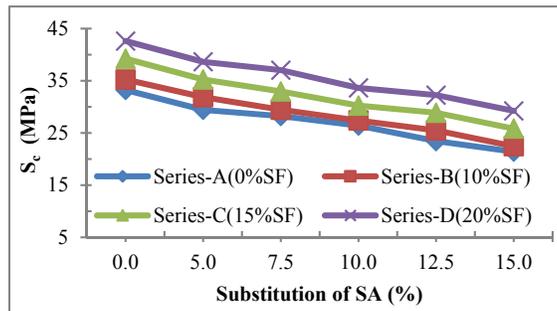
Physical and Mechanical Properties of Mortars Containing
Incinerated Sludge Ash and Silica Fume



(a) at 3-days



(b) at 7-days



(c) at 28-days

Figure 8 -- Compressive strength of the specimens with various percentages of SA and SF (Note: 1 MPa = 145 psi.)