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Figure 1

(cementitious binder+ water) + aggregate	→	concrete	(1)
(cementitious binder+ water) + aggregate +AG	→	concrete	(1a)
(cementitious binder+ water) + aggregate	→	concrete + AG	(1b)
cementitious binder+ water	→	cement paste	(2)
cementitious binder+ water + AG	→	cement paste	(2a)
cementitious binder+ water	→	cement paste +AG	(2b)
aggregate + cement paste	→	concrete	(3)
aggregate + cement paste + AG	→	concrete	(3a)
fine aggregate (sand) + cement paste	→	concrete + AG	(3b)
fine aggregate (sand) + cement paste	→	mortar	(4)
fine aggregate (sand) + cement paste + AG	→	mortar	(4a)
fine aggregate (sand) + cement paste	→	mortar + AG	(4b)
mortar + coarse aggregate (gravel)	→	concrete	(5)
mortar + coarse aggregate (gravel) + AG	→	concrete	(5a)
mortar + coarse aggregate (gravel)	→	concrete + AG	(5b)

AG is shorthand for attapulgit, such as Acti-Gel[®] 208

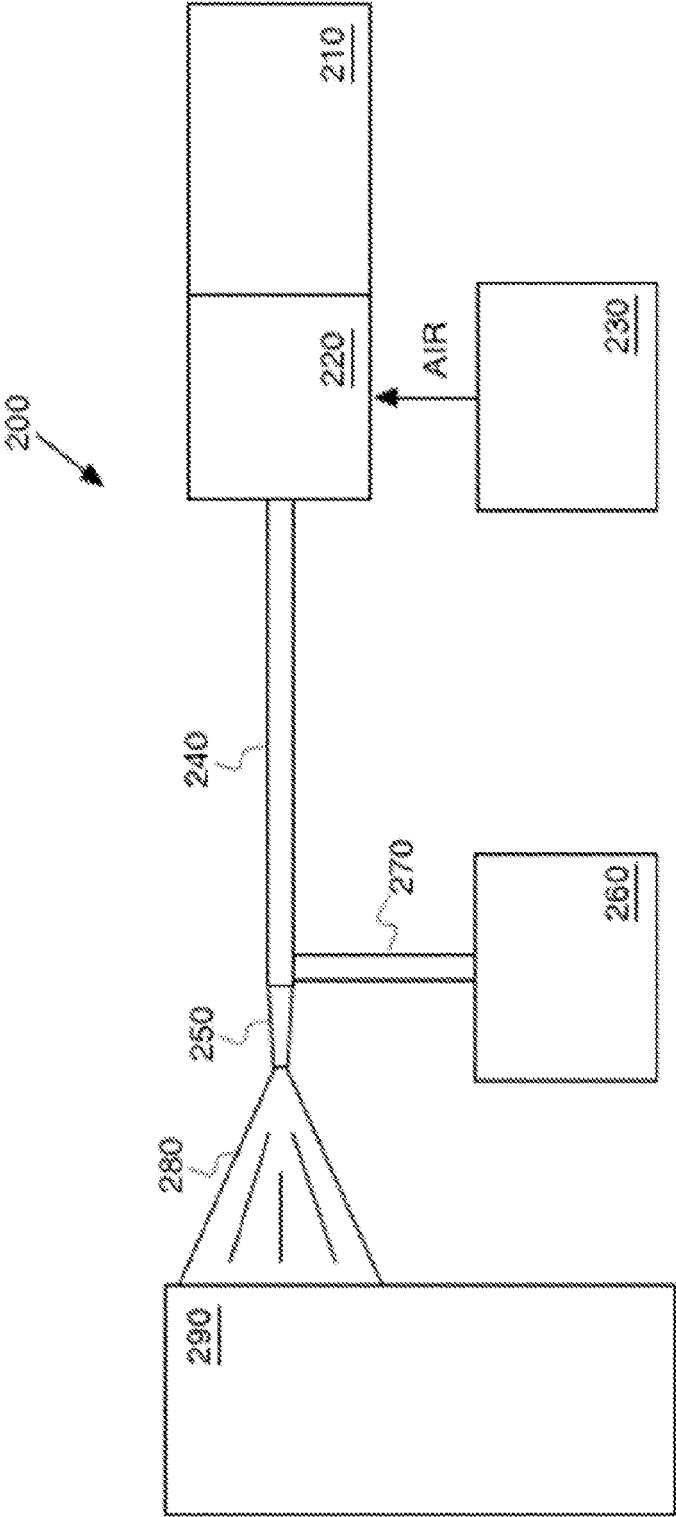


Fig. 2A

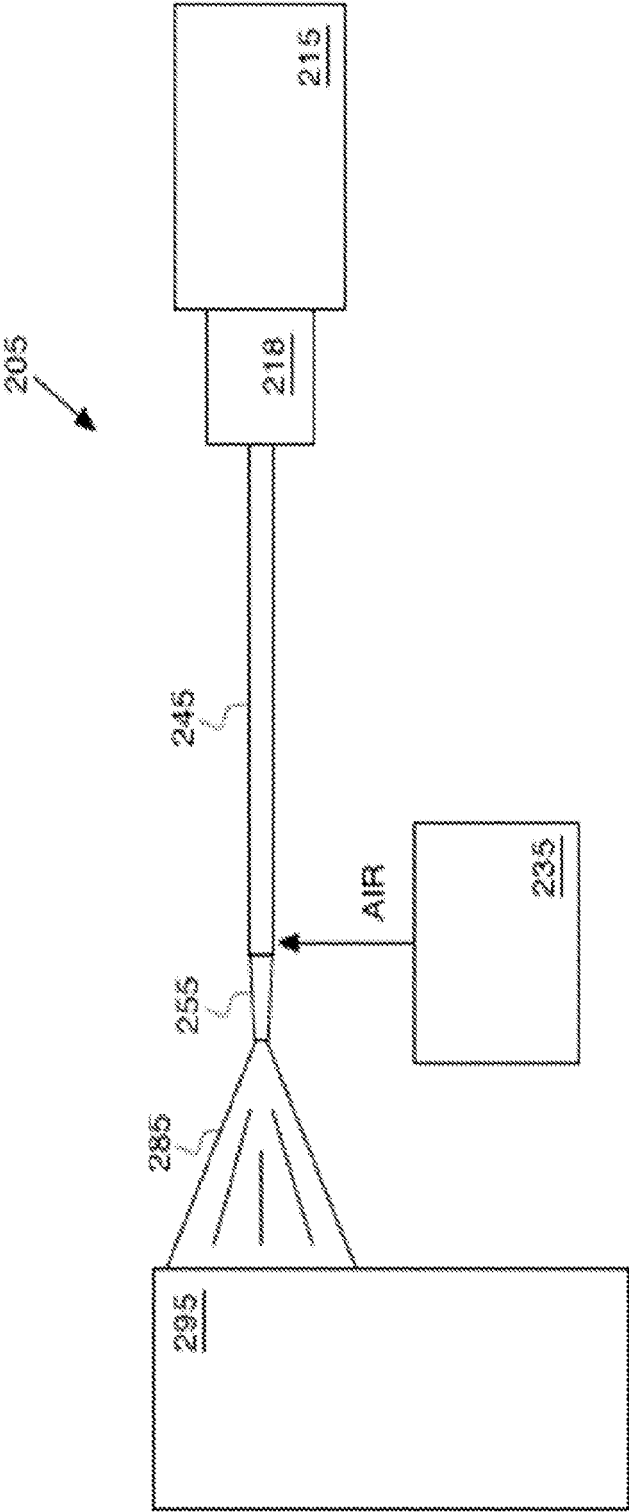


FIG. 2B

Figure 3A

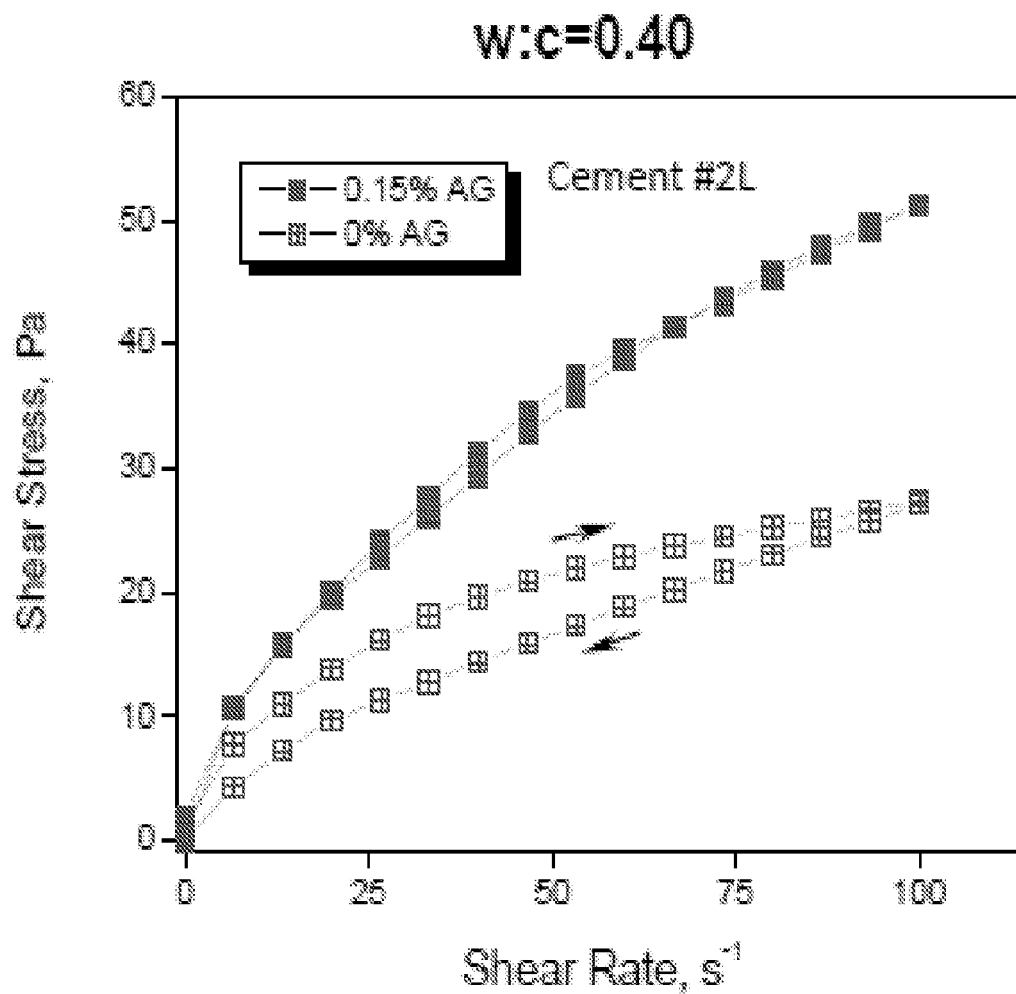
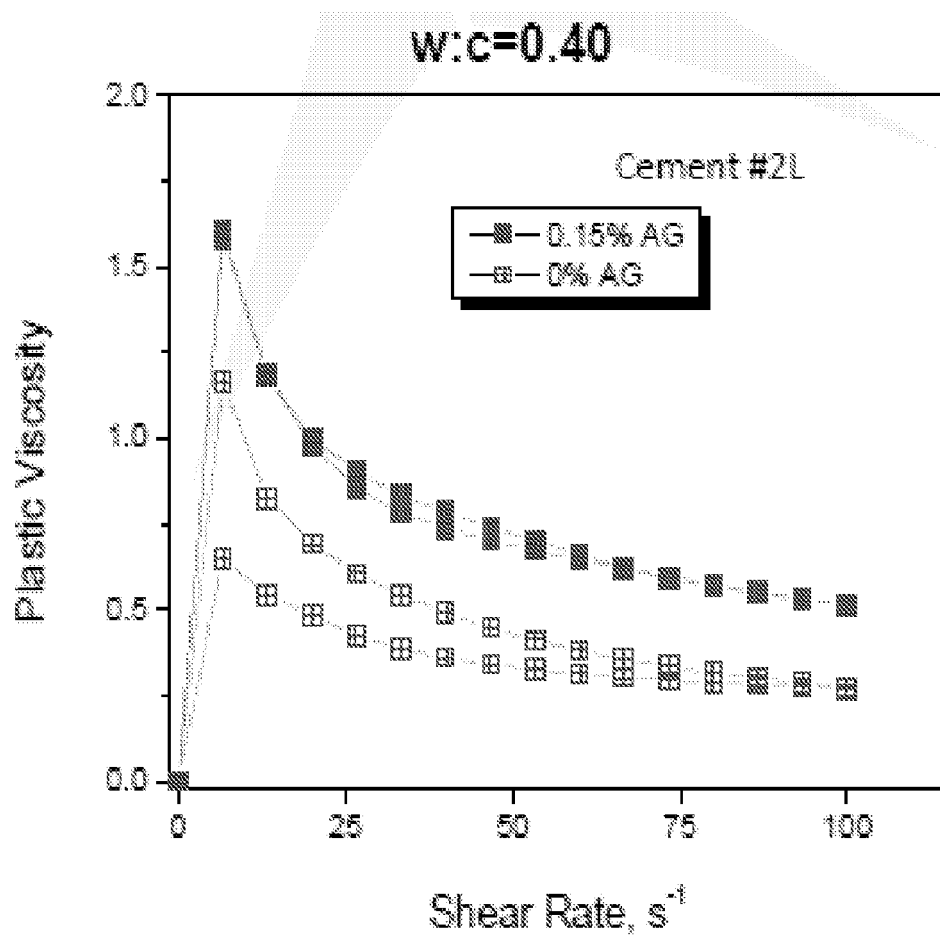


Figure 3B



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Figure 4A

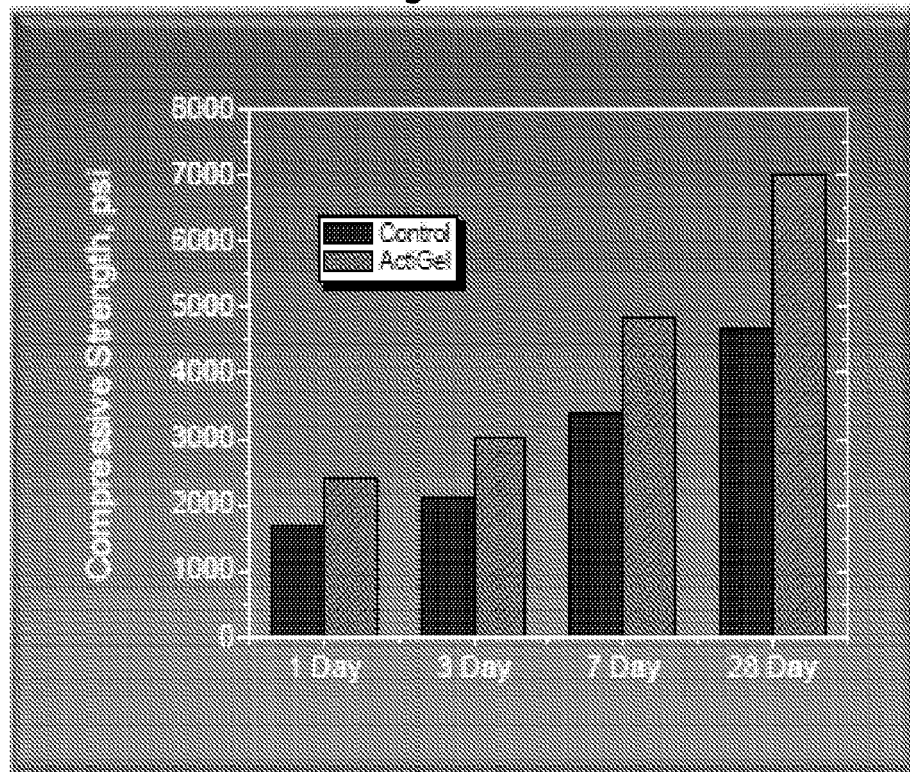
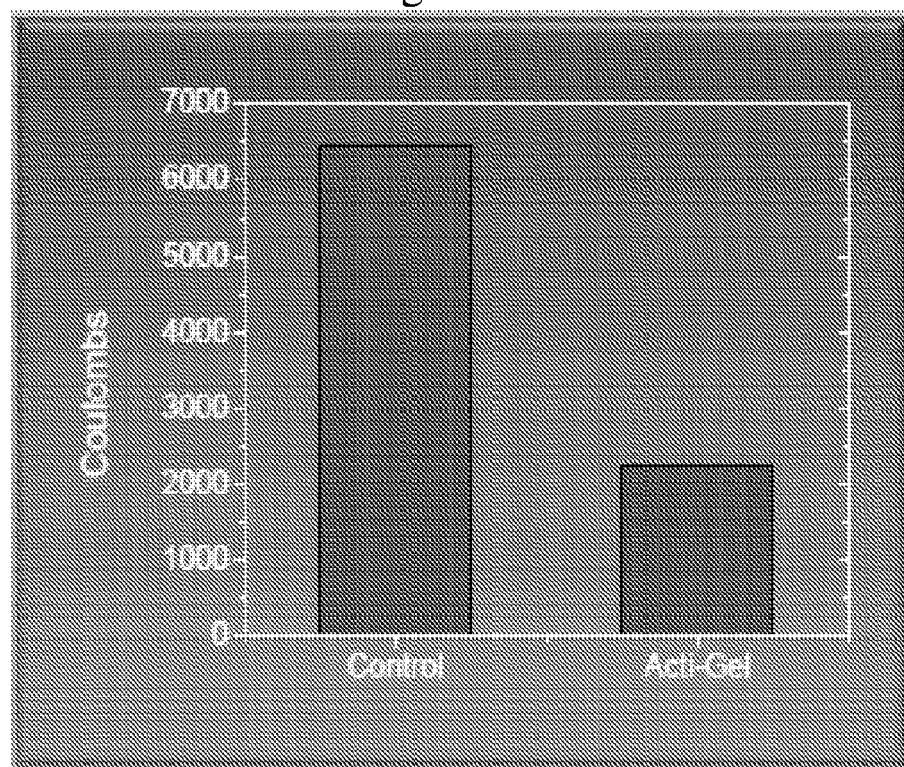


Figure 4B



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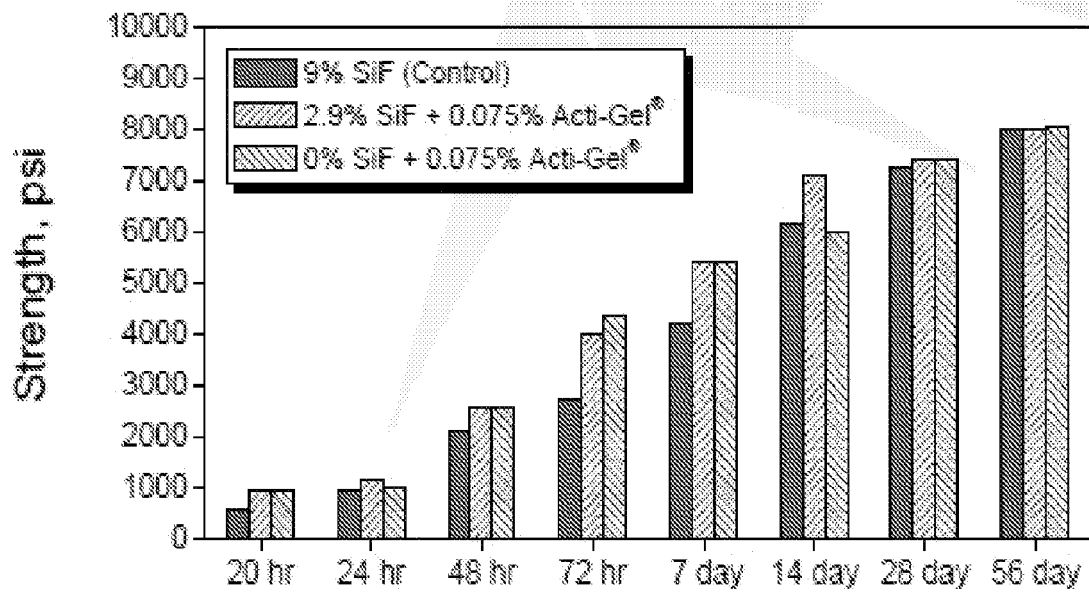


Figure 5A

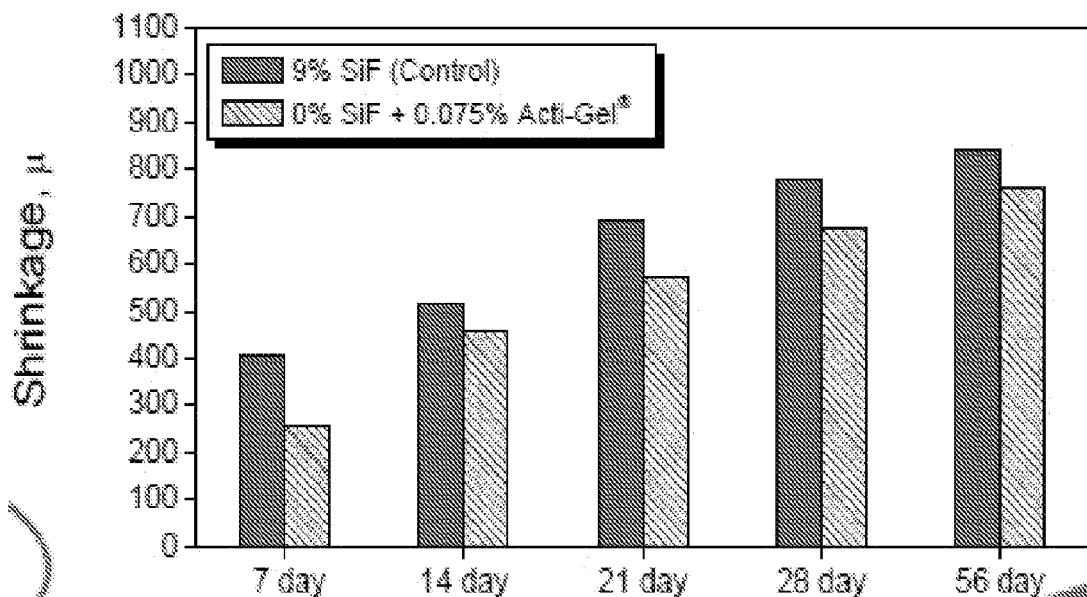


Figure 5B

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Figure 6A

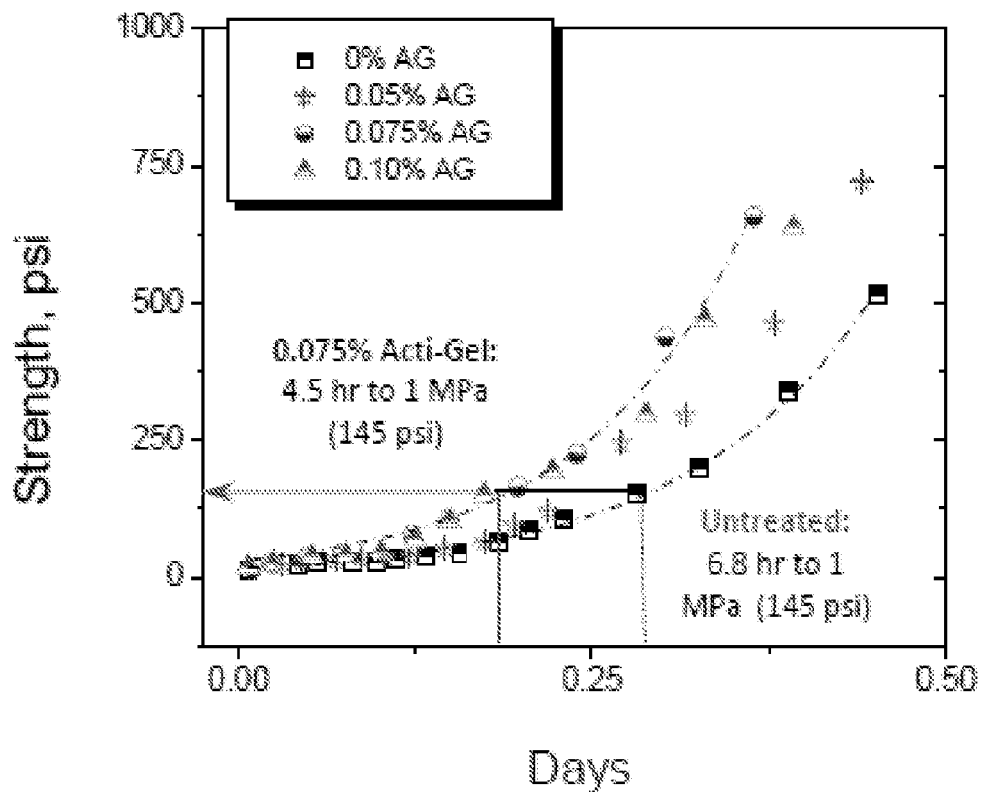
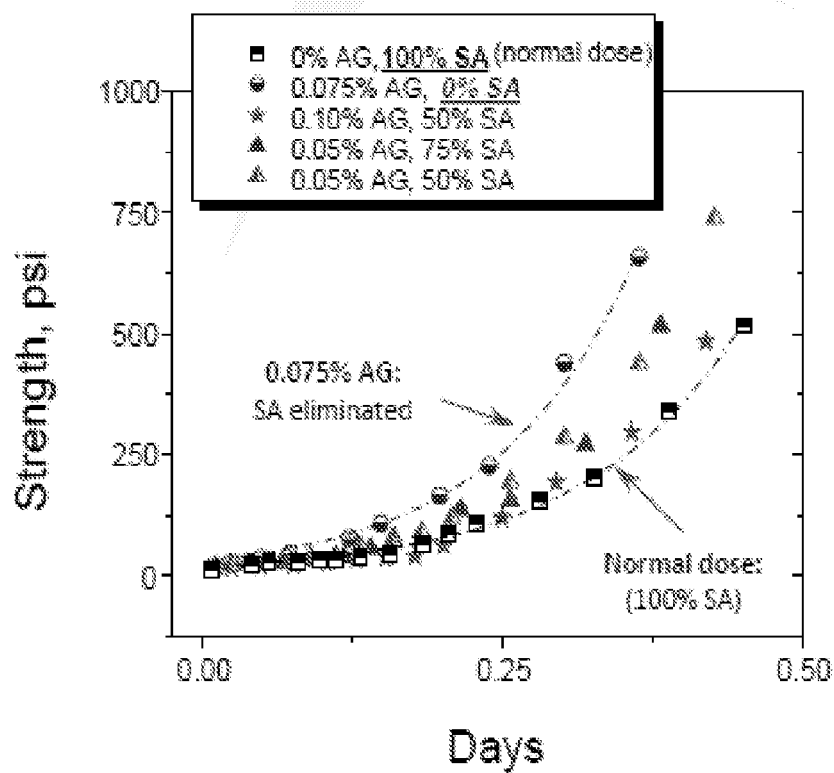


Figure 6B



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Figure 7A

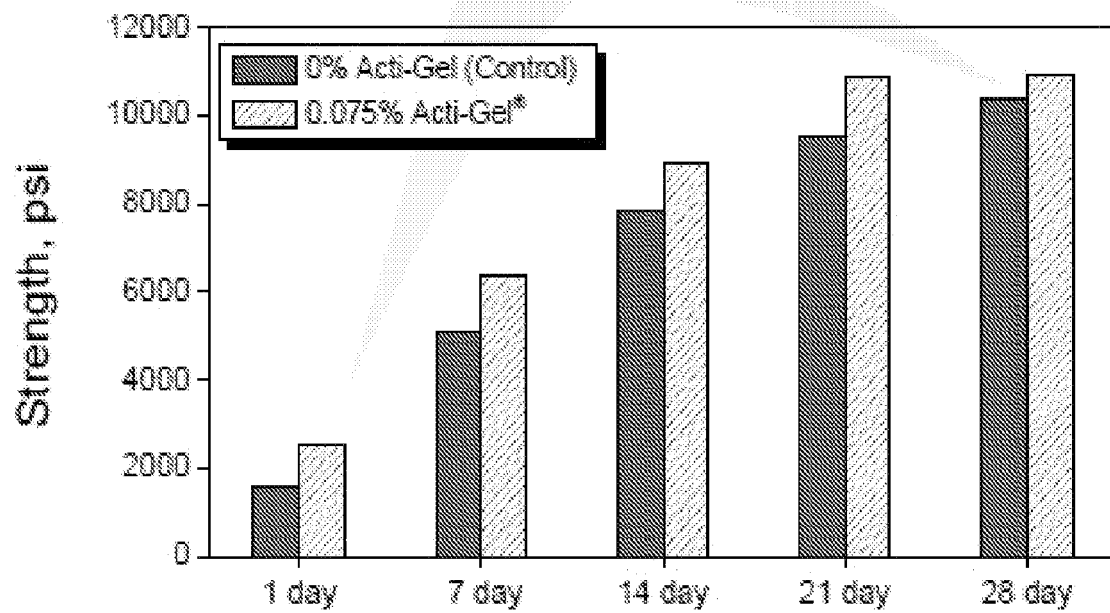
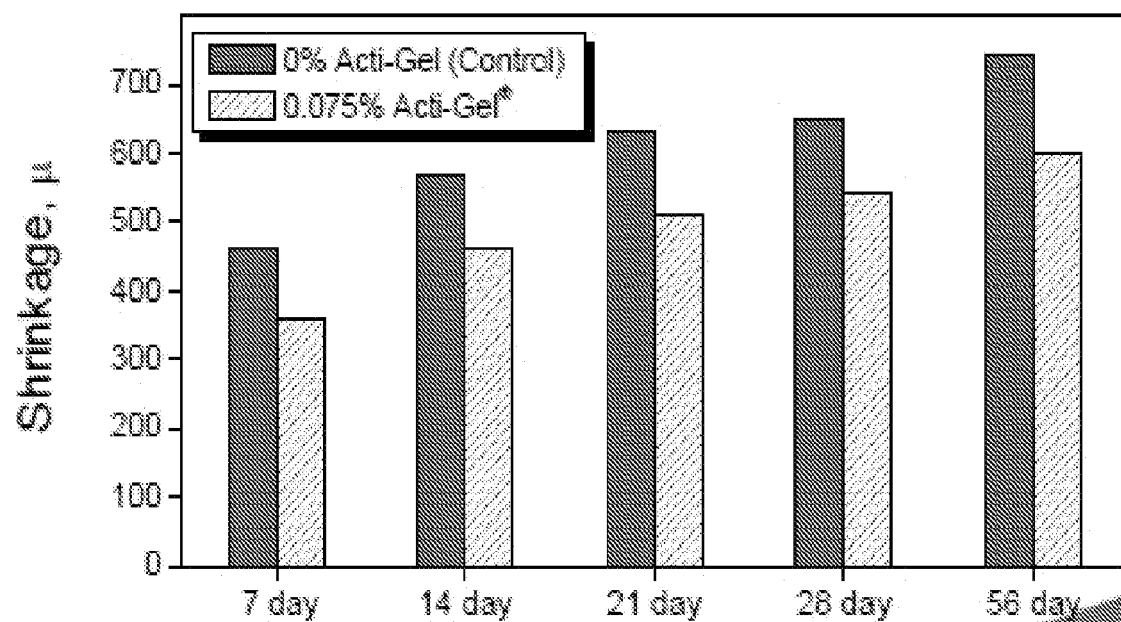


Figure 7B



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Figure 8

