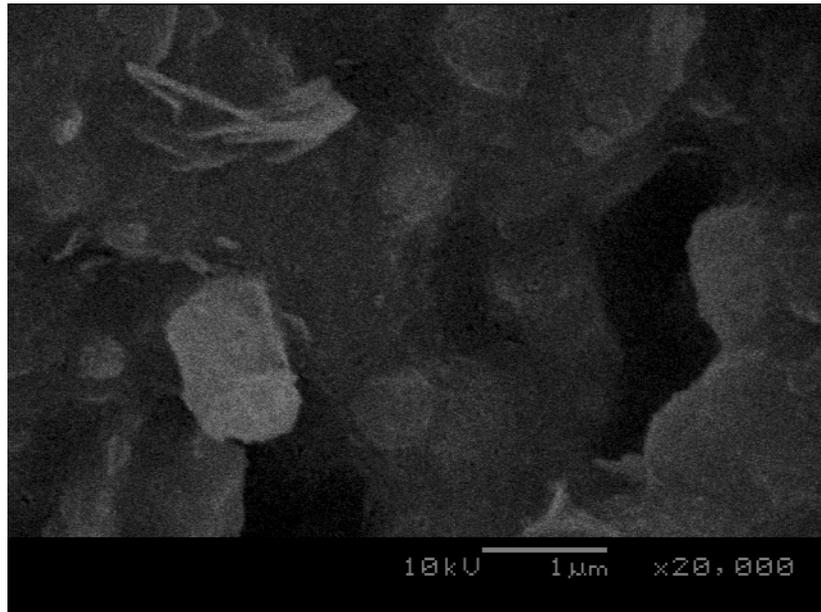


## APPENDIX C

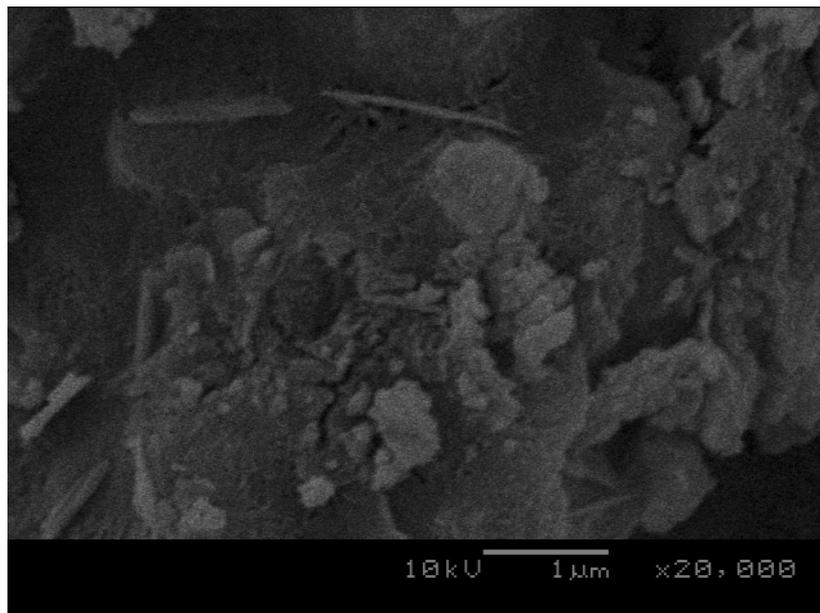
### SEM IMAGES FOR MAIN STUDY MIXES

#### Appendix C1: Arusha pozzolan mixes

##### 1. Arusha pozzolan washed sand mixes:

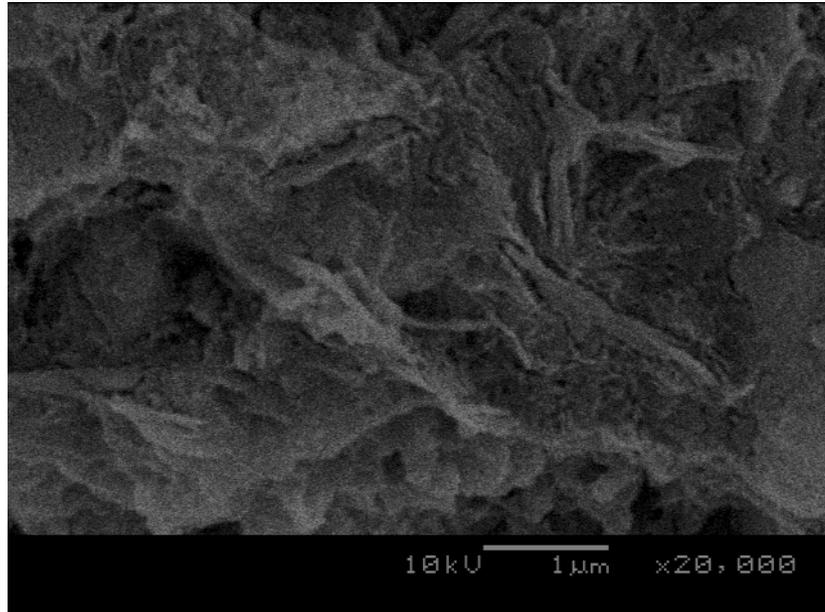


Arusha pozzolan: 25% Saturation (28 days)

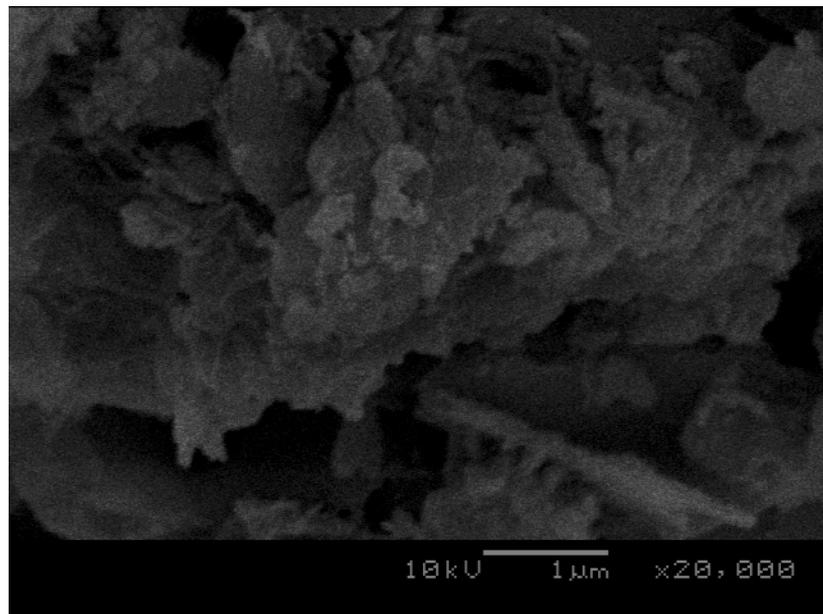


Arusha pozzolan: 50% Saturation (28 days)

**Arusha pozzolan washed sand mixes**

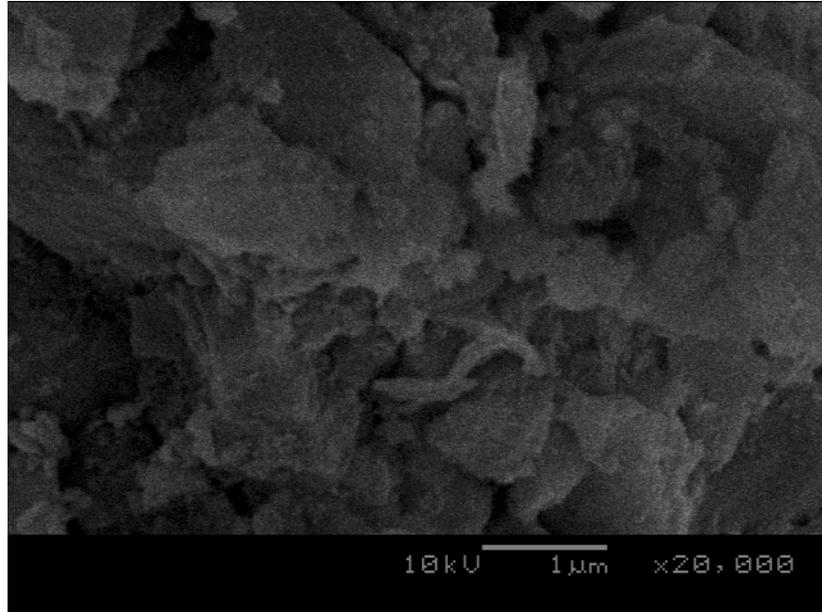


Arusha pozzolan: 75% Saturation (28 days)

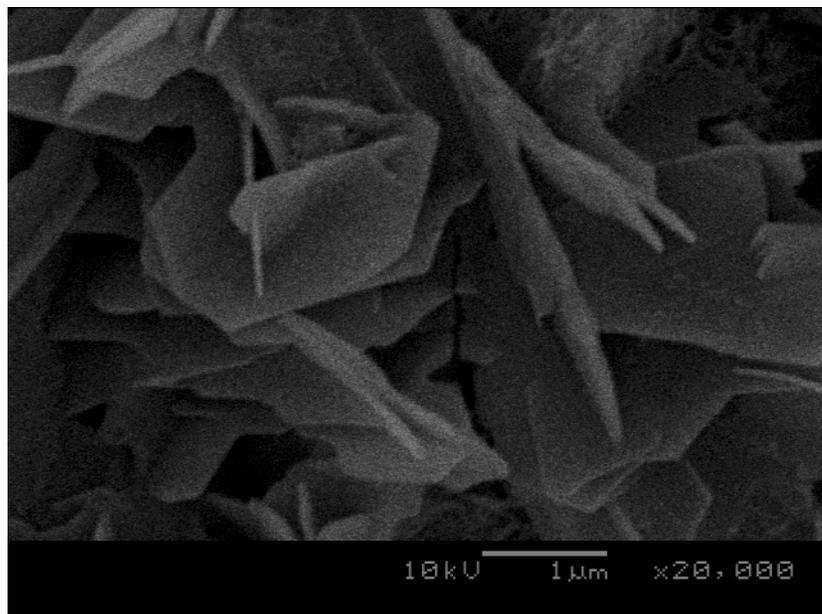


Arusha pozzolan: 100% Saturation (28 days)

**2. Arusha pozzolan unwashed sand mixes:**

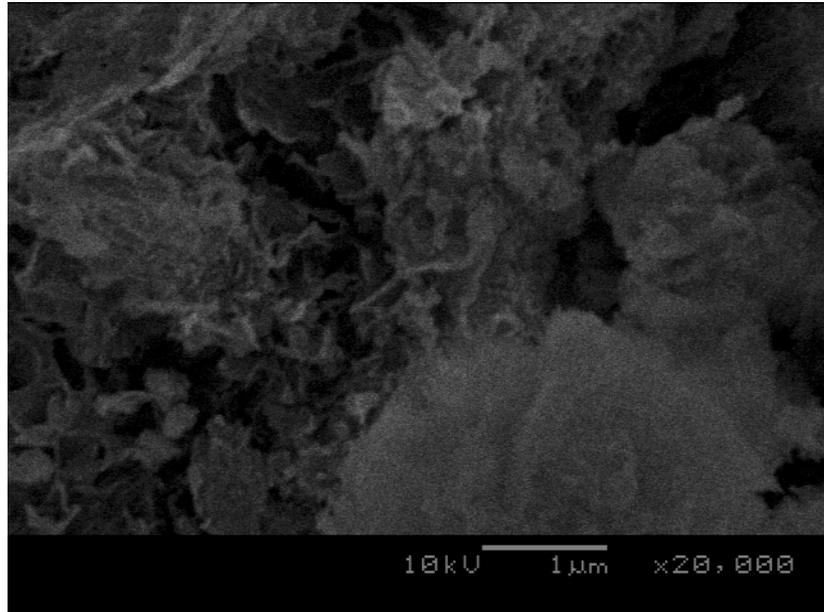


Arusha pozzolan: 24% Saturation (28 days)

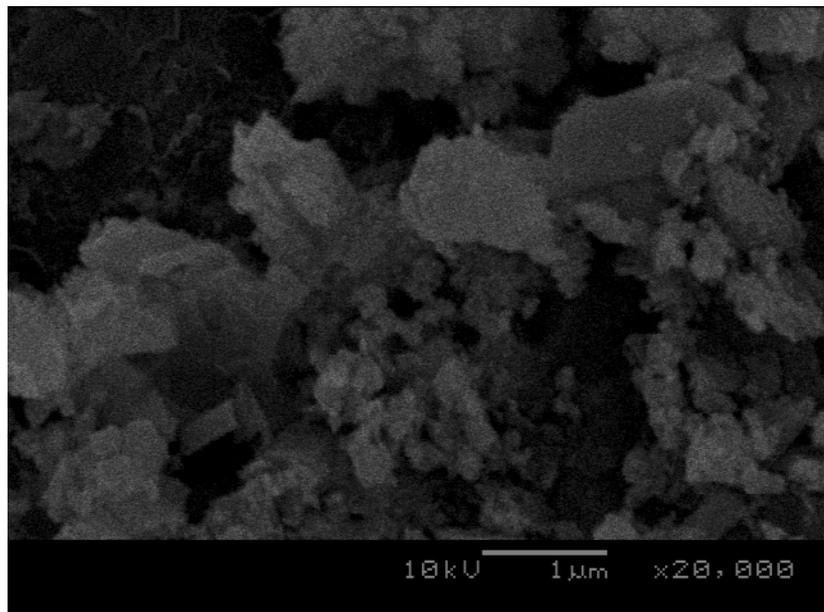


Arusha pozzolan: 49% Saturation (28 days)

**Arusha pozzolan unwashed sand mixes**



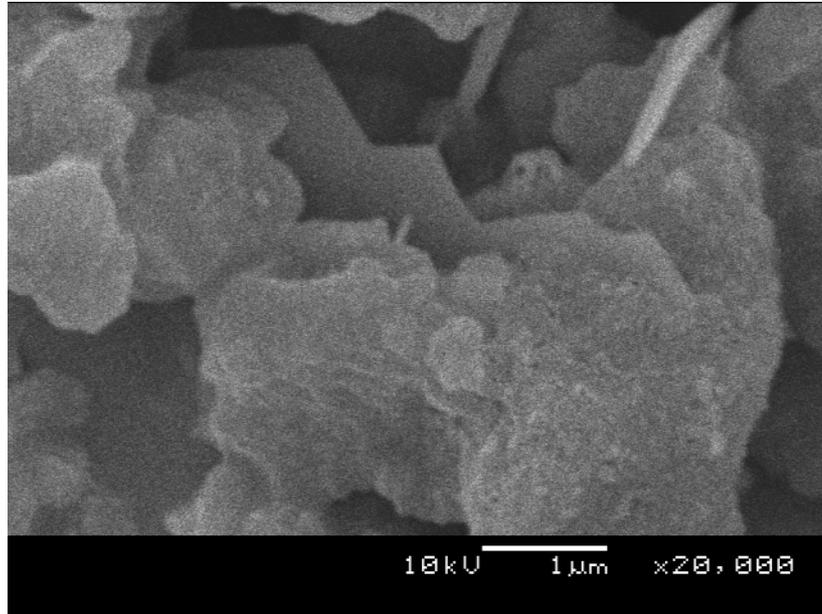
Arusha pozzolan: 73% Saturation (28 days)



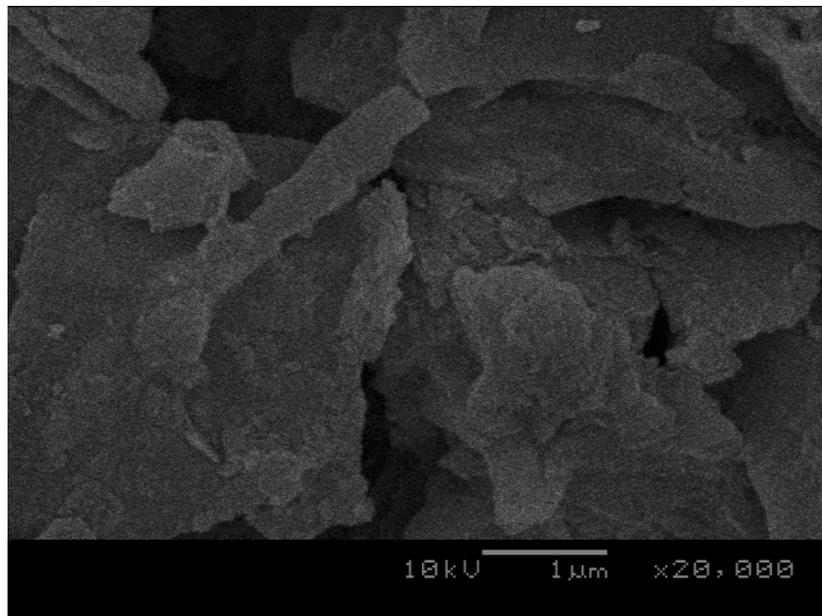
Arusha pozzolan: 100% Saturation (28 days)

**Appendix C2: Mbeya pozzolan mixes**

**1. Mbeya pozzolan washed sand mixes:**

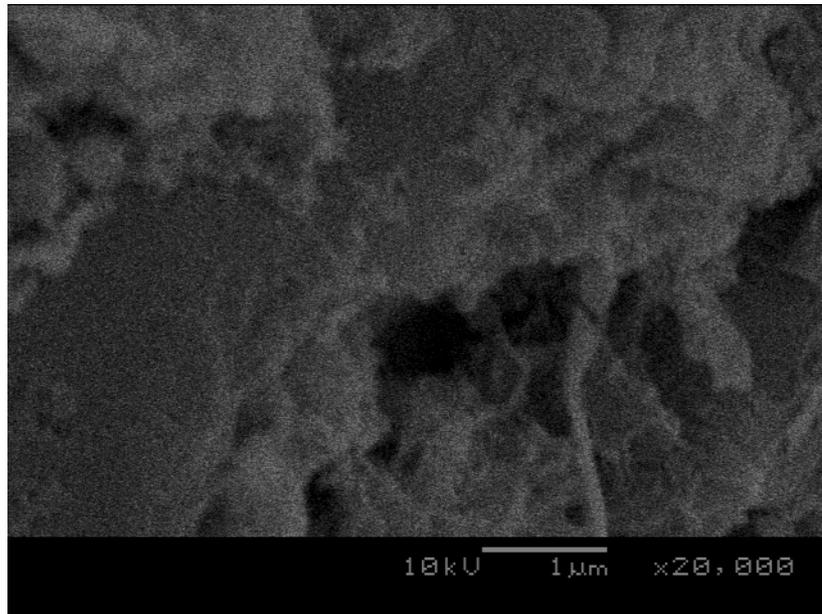


Mbeya pozzolan: 26% Saturation (28 days)

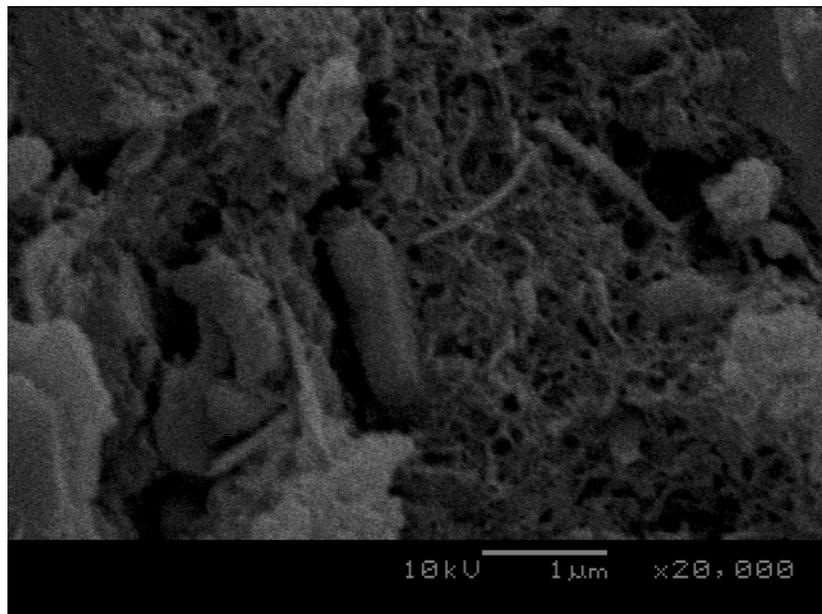


Mbeya pozzolan: 51% Saturation (28 days)

**Mbeya pozzolan washed sand mixes**

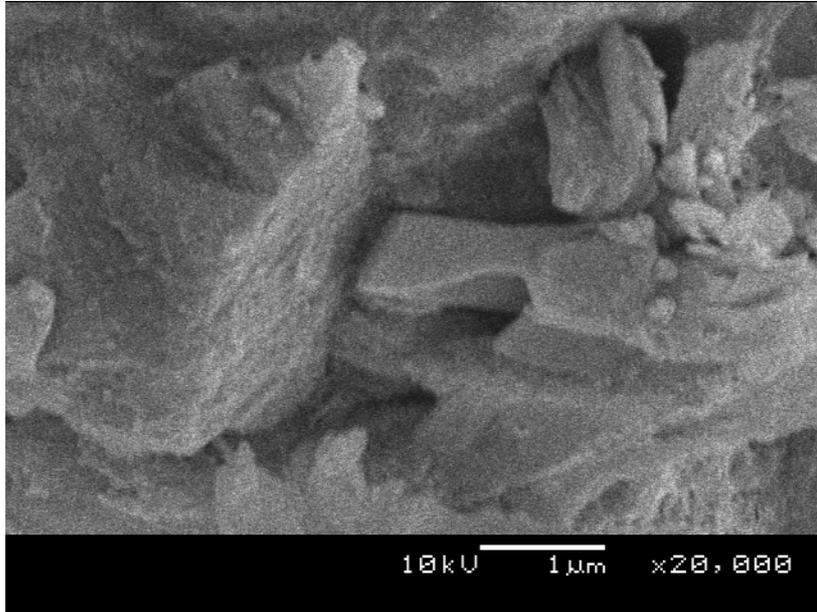


Mbeya pozzolan: 77% Saturation (28 days)

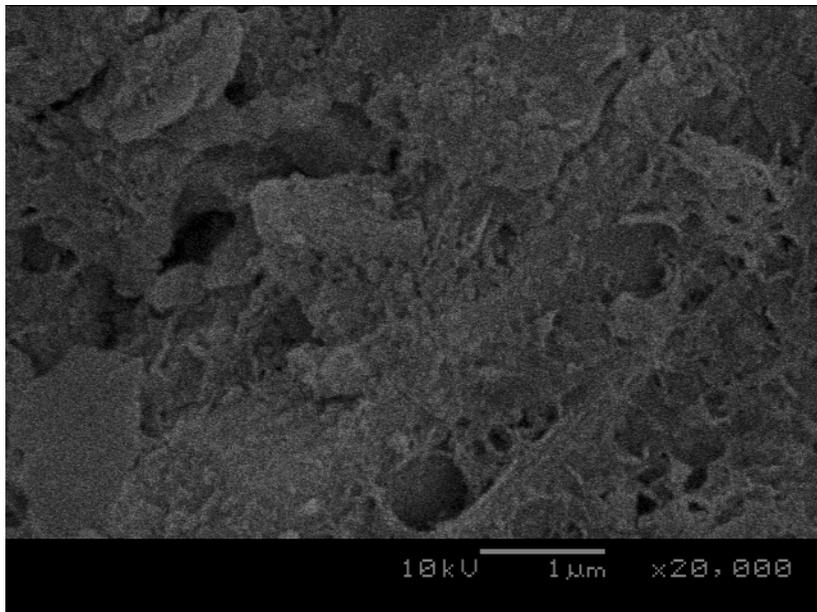


Mbeya pozzolan: 100% Saturation (28 days)

**2. Mbeya pozzolan unwashed sand mixes:**

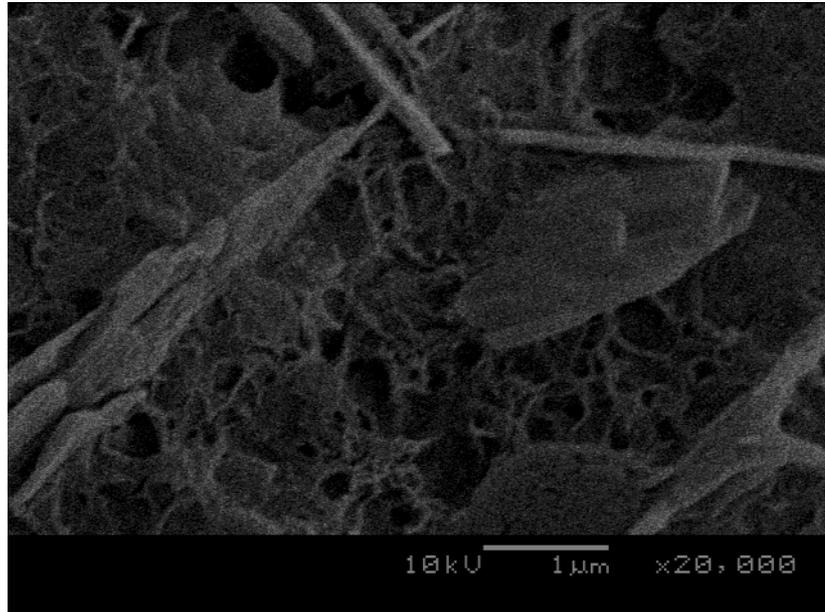


Mbeya pozzolan: 25% Saturation (28 days)

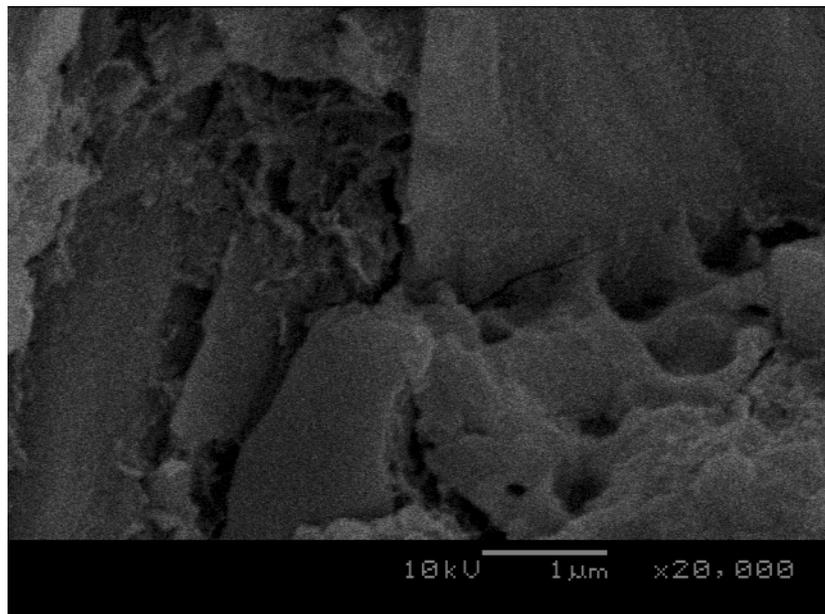


Mbeya pozzolan: 49% Saturation (28 days)

**Mbeya pozzolan unwashed sand mixes**



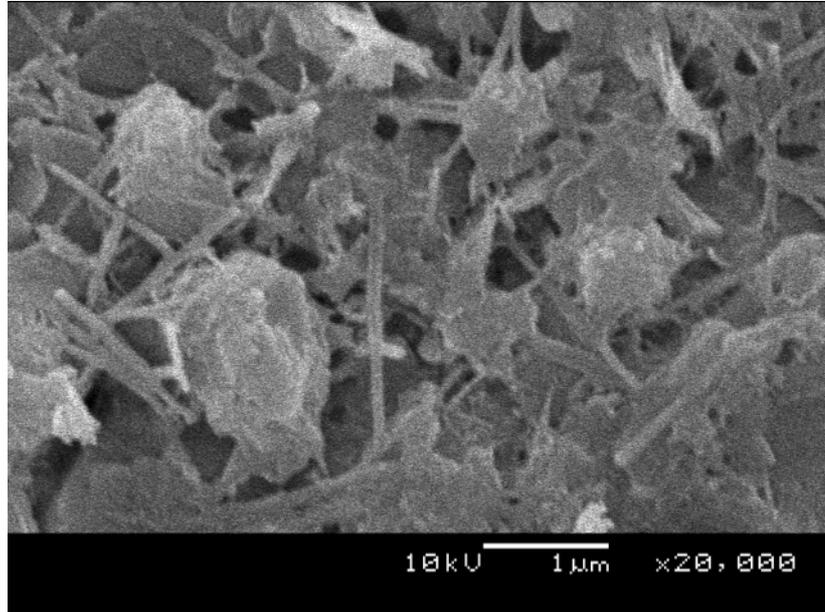
Mbeya pozzolan: 74% Saturation (28 days)



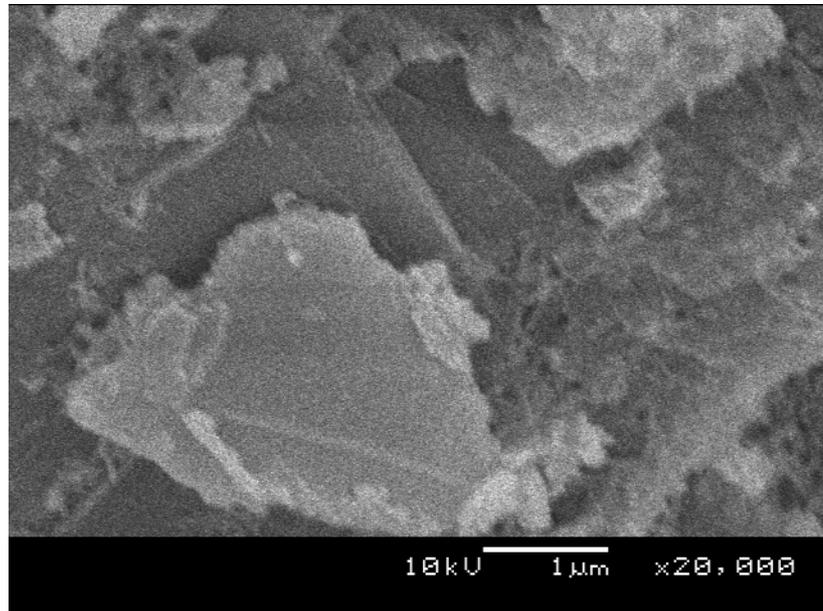
Mbeya pozzolan: 100% Saturation (28 days)

**Appendix C3: Cement mixes**

**1. Cement washed sand mixes**

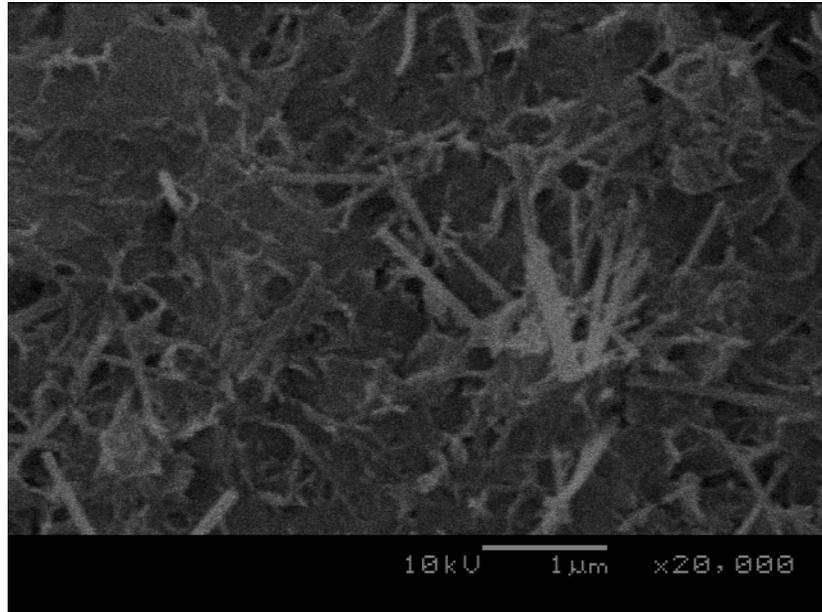


Cement: 26% Saturation (28 days)

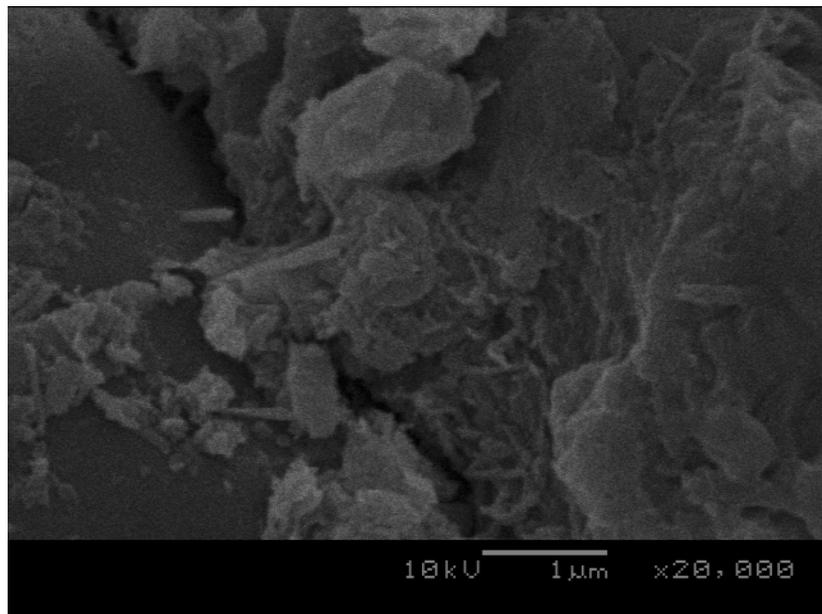


Cement: 51% Saturation (28 days)

**Cement washed sand mixes**

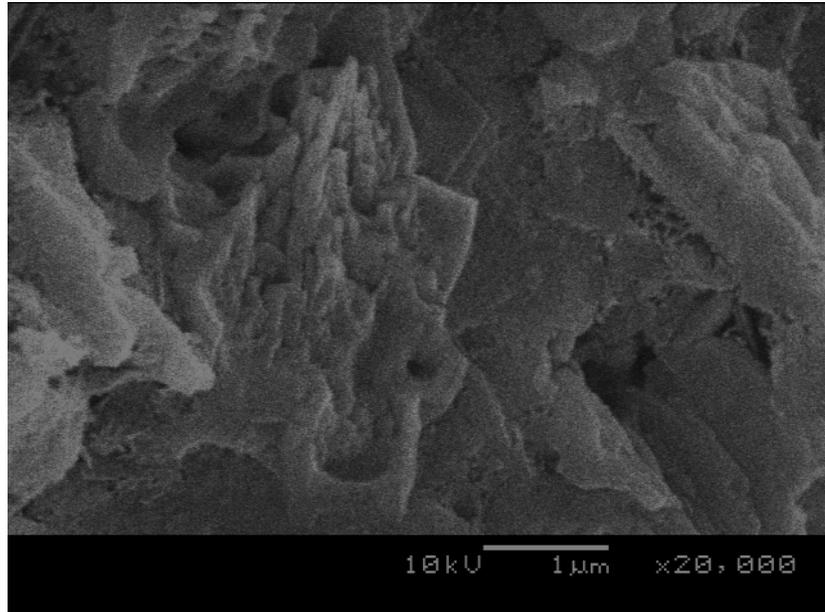


Cement: 77% Saturation (28 days)

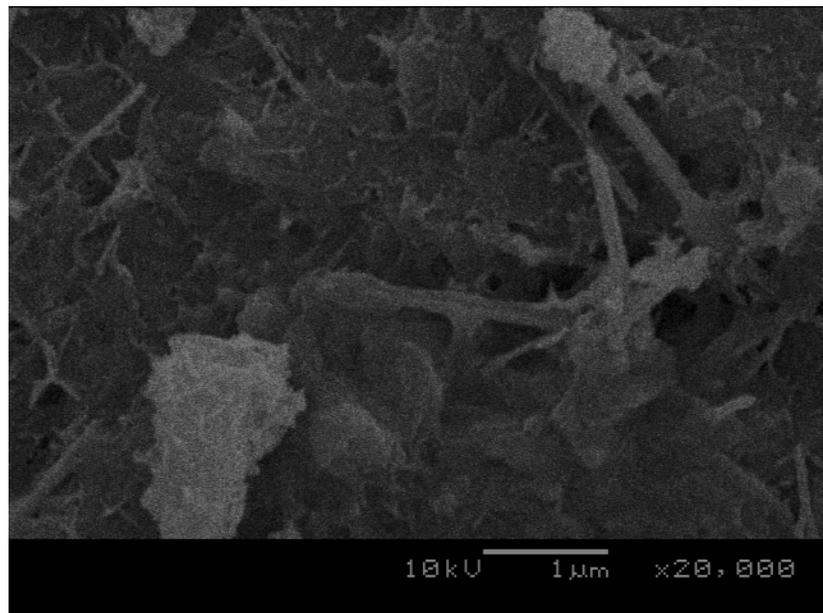


Cement: 100% Saturation (28 days)

**2. Cement unwashed sand mixes**

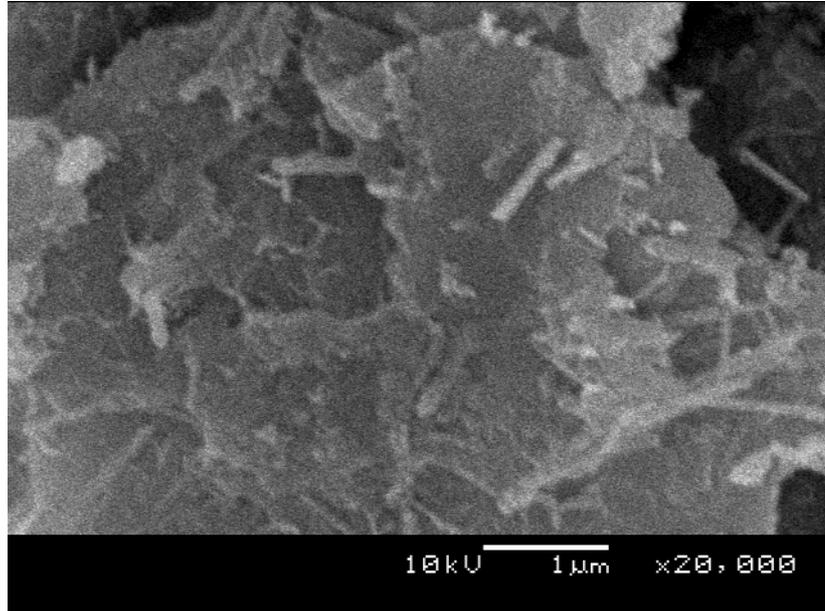


Cement: 26% Saturation (28 days)

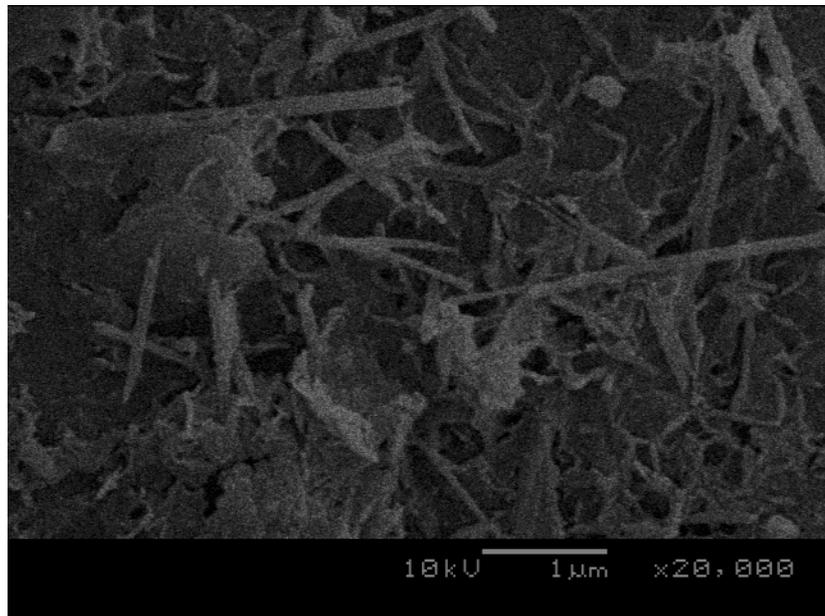


Cement: 52% Saturation (28 days)

**Cement unwashed sand mixes**



Cement: 77% Saturation (28 days)



Cement: 100% Saturation (28 days)