

It can be observed some reaction products after 200 cycle burner rig tests from top surface SEM image given in Figure 11.

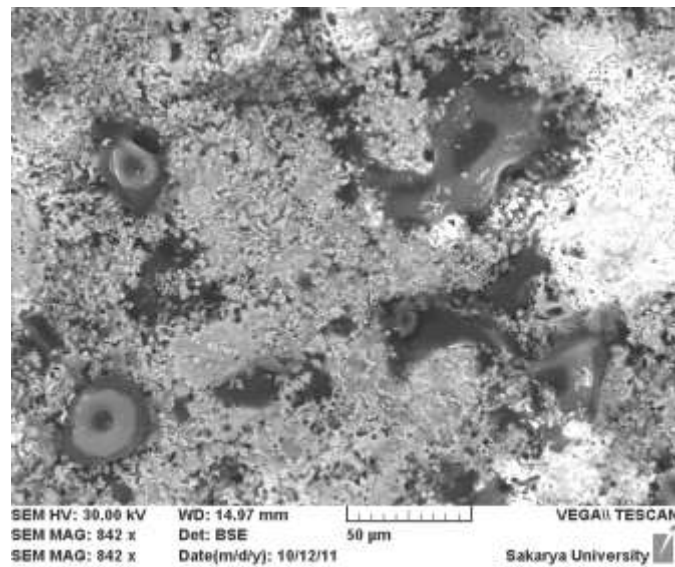


Figure 11 Top Surface SEM image of %50 YSZ coating after 200 cycle in burner rig.

Conclusions

Two different powder mixtures were prepared and isothermal oxidation and thermal burner rig tests were carried out in order to understand the self-healing behaviour of the coatings. Several silicon oxide and boron oxide phases were observed after both isothermal oxidation and burner rig tests.

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