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Development of re-firing Glazes Suitable for Sanitaryware

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For bigger sized industrial ceramic products, such as sanitaryware, re-fire process is very important. Therefore, in this study 11 different re-firing glaze were developed under industrial working conditions. After standart wet glaze preperation process applications were made onto fired but faulty surfaces and re-firing took place at 1200C. With a total firing time of 24 h. Compositional modification of glazes and their effects on the finel surface properties were investigated. Moreover, the amount of bonding agent added to re-fireing glazes was also taken into account and its consequences regarding to surface cevering capacity of glazes were also studies. As a result, two of these 11 glaze compositions were found to be suitable repairing purposes and one of hem has been in industrial use.

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