

The Use Of Scrap Iron Slag In Artistic Glazes

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In recent years, positive steps about industrial waste recycling of materials are being taken. Herein, the increasing environmental awareness and the researches with the use of these wastes as alternative raw materials is a major contribution. Ceramic artists, especially in the attainment of artistic products, use this cheaper alternative raw materials. In this study, slag obtained from Izmir HABAS iron and steel factory was investigated color and texture effects in artistic glazes. Scrap slag was obtained during the production of construction iron from scrap-iron in the iron-steel factory. According to XRF elemental chemical analysis of the slag scrap iron, chromium and calcium includes. In this study, primarily, slag and fluxing properties of the raw materials (red lead, borax, ulexite) were used together. Prepared glazes mixes was used on Eczacıbaşı Vitra slip bodies. Ceramic glazes was fired at 1000oC and 1200oC 20 minutes. Used, depending on the amount of waste material from gray to brown and the different shades of colors has been obtained. Then slag different coloring oxides, matting and opacification raw materials used together with in ceramic glaze. Finally, grey - dark blue, from black, different shades of green coffee from the different shades of colors and glossy and matte glaze to the surface was obtained.

Key words: slag, scrap slag, artistic glazes, waste recycling, alternative ceramic raw materials