Various fixed oils (refined and unrefined), namely drying oils or seed oils, are commonly used as medium in pictorial art and these oils are preferred by artists in order to dry and bind the color pigments in a canvas. The effects drying oils on characteristics (color change in time, required time for complete drying, constituents paint medium and cracking etc.) of paint vary depending on the fatty acid composition of the oil. However, studies about the effects of refined and cold press (unrefined) seed oils on aforementioned properties of paint are insufficient, thus in the present study, four different fixed oils (linseed, sunflowers, safflowers and sesame oils) were mixed with color pigments (white, red, yellow and blue) with the ratio of 1:10 (w/v) until getting a creamy structure and their effects on total drying time, color attributes (L*, a*, b*) were investigated. Moreover, fatty acid compositions (area %) of used drying oils are presented according to the GC/FID results. Color is the most important quality parameters of painting and slight changes may occur in the color of paint due part to type of drying oil.