Within the scope of this study, the effect of corona plasma on the uptake of dye was investigated in wool fabrics. Wool fabrics were treated with corono plasma and then dyed with reactive and reactive/acid/metal complex dyestuffs. The treated fabrics were evaluated in terms of their dye ability color fastness and water absorbency properties. The results of the analysis and test showed that, the corona plasma had a positive effect on the dye ability and water absorbency of wool fabrics. The color fastness valued and water absorbency properties of the fabrics increased after the corona plasma treatment.