Let $E$ be the Dvoretzky random covering sets on the circle. By applying the method of limsup type random fractals in Khoshnevisan, Peres and Xiao (2000), we investigate the probability that $E$ intersects a fixed analytic set $G$ and the Hausdorff dimension of the intersection set $E \cap G$. Extensions to Ahlfors regular metric spaces or higher dimensional torus are also studied. (Received August 18, 2019)