INTISARI

Pengembangan material beton masih terus dikembangkan dalam infrastruktur Indonesia agar mendapatkan kualitas baik dan bermutu tinggi, diantaranya adalah beton serat baja dan penggunaan bahan tambah aditif yang dimaksudkan untuk menambah *workability* dan kekuatan beton serta mendukung tercapainya program SDGs. Penelitian ini dilakukan untuk mengetahui pengaruh penambahan kadar serat baja dan bahan aditif *superplasticizer* 1% serta variasi persentase serat yang maksimum untuk meningkatkan kuat tekan, kuat tarik belah, dan kuat lentur beton.

Kata kunci : beton serat baja, *superplasticizer*

ABSTRACT

The development of concrete materials continues to progress in Indonesia's infrastructure to achieve high quality and superior standards. This includes the use of steel fiber concrete and additive materials intended to enhance the workability and strength of concrete, thereby supporting the achievement of the Sustainable Development Goals (SDGs). This research was conducted to determine the effect of adding steel fiber and superplasticizer additives 1%, as well as the maximum percentage variations of steel fiber, on enhancing the compressive strength, splitting tensile strength, and flexural strength of concrete.

Keywords : steel fiber concrete, superplasticizer