

## INTISARI

Beton pada saat ini semakin berkembang dikarenakan banyaknya jenis beton yang mulai dikembangkan dan kebutuhan akan beton tinggi akibat pertumbuhan penduduk yang meningkat.

Kuat tekan beton merupakan salah satu penentu mutu beton sehingga semakin besar kuat tekan beton maka semakin baik pula mutu beton. Faktor yang mempengaruhi kuat tekan beton yaitu perawatan beton (*curing*).

Proses perawatan beton dapat dilakukan dengan beberapa metode dan dalam penelitian ini akan membahas perawatan dengan cara di masukkan kedalam bak perendaman (*curing*), tanpa perawatan (ruangan terbuka dan tertutup), dan cara di oven di suhu 80°C. Tujuan perawatan beton adalah menjaga kelembaban beton agar menghindari penguapan berlebih dan keretakan pada beton. Keretakan yang dimaksud adalah pada saat beton mulai mengeras sehingga mengurangi kuat tekan beton.

Dari hasil study perawatan dengan cara *curing* didapatkan kuat tekan beton maksimal mutu K400NFA= 35.420 MPa, dan mutu K400FA 20= 37.306 MPa.

Kata kunci : Perawatan beton, kuat tekan beton, *readymix*

## **ABSTRACT**

*Concrete in present day has developing in many types due to the need for concrete increased in line with population growth concrete.*

*The compressive strength of concrete is one determinant of the quality of concrete, so the greater the strength of concrete the better the quality of the concrete. The key factor of the compressive strength of concrete is concrete treatment in water ( curing)*

*Concrete curing process can be done by several methods. This study will discuss curing in a manner is concrete treatment in water (curing) , without curing (indoor and outdoor), and the way in an oven at a temperature of 80 ° C. The goal of treatment is to maintain the humidity of concrete concrete in order to avoid excessive evaporation and cracking of concrete. Cracks in the moment the concrete begins to harden , thereby reducing the compressive strength of concrete.*

*From the results of study treatment by means of curing concrete compressive strength obtained maximum quality of K400NFA which was 35 420 MPa , and the quality K400FA 20 which was 37 306 MPa .*

*Keyword : concrete treatment, compressive strength of concrete, readymix*