

SKUDO ENHANCES CONCRETE'S STRENGTH

Initially the Skudo Floor system started life with the soul objective of providing temporary protection for floors of various types... including concrete. It was during this time that the notion of the Skudo coating having the ability to enhance the compressive strength of concrete was first identified.

THE TEST:

Hanson Technical Services division – a NATA accredited Laboratory was employed to test the benefits of concrete coated with the Skudo Floor System versus standard cured concrete. Hanson began the test by casting three groups of six cylinders all from the same batch of concrete that was manufactured at a specification of 32MPa. As an additional indicator, one of the groups of six was immediately submersed in water in order to articulate the maximum MPa possible from the batch. The second group of six cylinders was left natural to 'air' cure, and the third group of six were coated on top with the Skudo Floor system.



At three intervals two samples from each group was pulled and tested based on their compressive strength. The three intervals were 4 days, 7 days, and 28 days. What was very surprising was the rate of increase the Skudo coated samples received versus the 'air' cured samples.

THE RESULTS:

Type of sample	orig conc.	4 days	7 days	28 days
Samples from 'water' cured	32MPa	21MPa	26MPa	38MPa
Samples from 'air' cured	32MPa	21Mpa	23MPa	27MPa
Samples coated with Skudo	32MPa	22MPa	26MPa	36MPa

THE CONCLUSION:

As indicated, the Skudo coated samples nearly performed as well as completely submersed concrete, which is remarkable. We are talking a difference of 8-9 MPa in compressive strength between the Skudo coated concrete versus 'air' cured concrete.