

Solid Base Stabilizer (SBS) Test Result by Dantata & Sawoe Construction Company

TYPE OF MATERIAL	SAMPLED AT	LL	PI	SIEVE 200	Soil Class	CBR UNSOAKED		% Increased	CBR UNSOAKED AFTER 7 DAYS (with Stabiliser)
						WITHOUT STABILISER	WITH STABILISER		
BASE COURSE	BORROW PIT	28	6.6	18	A-2	88.7	104.5	15.8	
FILL MATERIAL	SITE	30.2	11.7	30.6	A-2	11	42.1	31.1	109.7

- Two types of materials were tested to determine the effect of Base stabiliser in CBR. One is base and the other is fill quality.
- CBR of these materials were determined in Unsoaked condition since the intended usage of the materials are for Base layer.
- As shown in the table above, the CBR value of the base material without Stabiliser already met the required CBR value of base course which is min of 80% whilst the Fill material has 11% only.
- After treating both materials with Base Stabiliser with a dosage of 1 liters Stabiliser to 300liters of water, CBR value increased by 16% to 31%.
- Manufacturer gave instruction that material treated with stabiliser must be tested for CBR at 28days in unsoaked condition which we deemed too long that's why we come up testing it after 7days

Note:

- 1.) No doubt that there is positive effect in CBR after treating the materials with Base stabiliser, even achieving more than 80% CBR after 7 days in unsoaked condition. However, testing CBR after 7days in unsoaked condition is not part of Nigerian Specification unless it is required by Engrs or recommended by the manufacturer with written approval of Engr representative

D & S Kano
Quality Check: Pass