

Is 10262 Code Book Free Download

Analysis of Workability of Concrete by using Superplasticizer for M 30 Mix Design (IJRRD Vol. 3 Issue 04/2015/615)

Proportion for M 30 grade concrete with constant w/c ratio taken as 0.45 and adding superplasticizer at various percentages and find out the workability of M 30 Mix Design.

S.No.	Type of Construction	Range of Slump in mm
1.	Reinforced foundation walls and footings	20-80
2.	Plain footings, caissons and substructure walls	20-80
3.	Beams and reinforced walls	20-100
4.	Building columns	20-100
5.	Pavements and slabs	20-80
6.	Mass concrete	20-80

Table 9: Values of Slump for Various Types of Construction as Per ACI 211.1-81

S.No.	W/C ratio	% age of superplasticizer by wt. of cement	Slump in mm
1.	0.45	0.0 %	40.00
2.	0.45	0.5 %	62.00
3.	0.45	1.0%	84.00
4.	0.45	1.5 %	107.5
5.	0.45	2.0%	118.50

Table 10: Slump Value for W/C Ratio 0.45 and Various Values of Superplasticizer

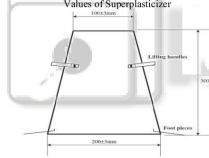


Fig. 1: Slump Cone Apparatus

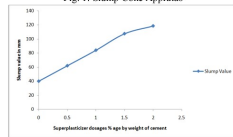


Fig. 2: Graph Between W/C Ratio 0.45 and Slump of Concrete With Adding Superplasticizer

IX. CONCLUSION

From this experimental study it has been concluded that w/c ratio for the M 30 Mix Design is 0.45 with adding water reducing super plasticizer at different percentage 0%, 0.5%,

1 %, 1.5%, & 2% by weight of the cement and having slump value increases as compared to get the slump value without using super plasticizer. 1% super plasticizer by weight of cement gives the required slump value in the design mix.

REFERENCE

- [1] IS 456-2000, Plain and reinforced concrete – code for practice (Fourth Revision), Bureau of Indian Standard, New Delhi.
- [2] IS 10262: 2009, code for concrete mix Bureau of Indian Standard, New Delhi
- [3] Concrete technology theory and practice by M.S.Shetty.
- [4] IS: 383-1970 Specification for coarse and fine aggregate from natural sources for concrete (Second Revision), Bureau of Indian Standard, New Delhi.

DOWNLOAD: <https://byltly.com/28pv6c>



7c23cce9bc

Related links:

[Download norton 360 with product key free](#)
[Wildlife Park 3 DLC-Collection Download\] \[PC\]](#)
[EBoostr Pro V4.5.0.596 With Patch](#)
[\[CRACKED\] Rubank Intermediate Method: Flute Or Piccolo \(Rubank Educational Library, No. 75\) Book Pdf](#)
[Scaricare Inventor LT 2018 Activator 32 Bits Italiano](#)