



TIPS TO STORE YOUR CEMENT BETTER

UltraTech
C E M E N T

The Engineer's Choice

SIGNIFICANCE OF PROPER STORAGE

Cement readily absorbs moisture from the air if it is not stored properly. The binding property and the strength of the cement depend upon its capacity for chemical reaction that takes place in presence of water. Hence, it is necessary to protect cement from dampness and humidity, as it can rapidly lose strength and form lumps.

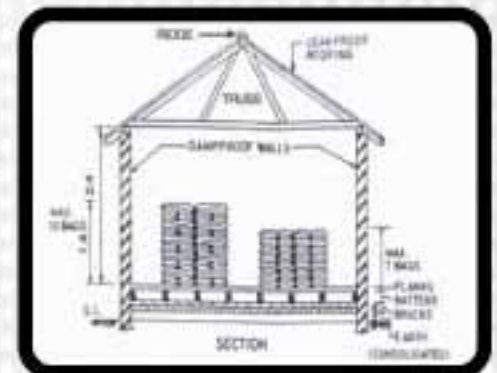
ADVANTAGES OF PROPER STORAGE OF CEMENT

- ✓ Prevents cement from deterioration
- ✓ Retains freshness
- ✓ Prevents formation of lumps due to moisture ingress
- ✓ Preserves binding property and hence the strength

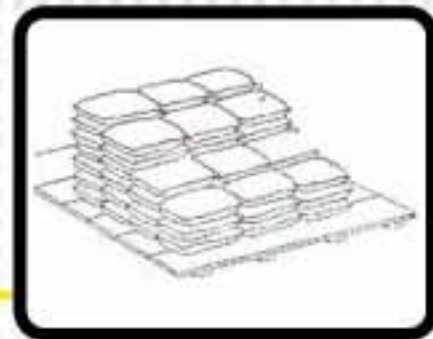
STORAGE AT SITE

In most of the construction projects cement godowns are constructed at site for storage. **The godowns should satisfy the below requirements** for proper storage of the cement:

- ✓ The walls, floors and roof of the godown must be plastered and made damp-proof before storing the cement
- ✓ Doors, windows and ventilators must be kept covered to avoid ingress of moisture
- ✓ Cements bags must be stacked at least 10-20cm clear above the floor preferably by providing wooden planks or by spreading tarpaulin on the floor
- ✓ Plinth level of the **godown should be minimum 30cm (1 foot) above ground level**, however, for loading and unloading purposes a plinth height of 120cm (4 feet) should be maintained



STACKING OF CEMENT BAGS



- ✓ Cement bags should not be stacked in contact with the wall and ceiling
- ✓ At least 30cm (1 foot) gap should be maintained between the stack and the wall
- ✓ At least 60cm (2 feet) gap should be maintained between the top of the stack and the ceiling
- ✓ Cement bags must be stacked closely together in order to reduce circulation of moisture
- ✓ Do not stack more than 12 bags in height to avoid lump formation due to pressure on the lower bags
- ✓ Roll the bags once or twice to break the lumps
- ✓ Arrange the cement bags in header and stretcher (length wise and cross wise) fashion, to avoid interlocking and toppling of the bags
- ✓ Stack cement bags in such a way that it can be removed on "FIRST IN FIRST OUT" basis
- ✓ The stack should be kept covered with tarpaulin or polythene sheet to protect from atmospheric moisture especially during the monsoons
- ✓ Do not keep bags on the ground for temporary storage at work site. Pile on raised dry platform and cover with tarpaulin or polythene sheets
- ✓ Whenever cement is stored for more than 90 days, it should be tested for its compressive strength before use

EFFECT OF STORAGE ON STRENGTH OF CEMENT

Cement loses its strength gradually during the period of storage and under the storage conditions.

PERIOD OF STORAGE OF CEMENT	EXPECTED REDUCTION IN 28 DAYS STRENGTH
Fresh	0%
3 Months	15 to 20%
6 Months	25 to 30%
1 Year	35 to 40%
2 Years	50% and above



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UltraTech Cement Limited

* Conditions apply. Services available in select cities/locations only

Central Marketing Office : Mumbai - UltraTech Cement Limited, A' Wing Ahura Centre, 1st Floor, Mahakali Caves Road, Near M.I.D.C. Office, Andheri (East), Mumbai - 400 093. Tel. (022) 66917360.

Zonal Offices : Bengaluru - "Industry House" 5th Floor, Fair Field Layout, 45, Race Course Road, Bengaluru - 560 001. Tel. (080) 22250748, 22250749. Chennai - 23, Anna Salai, Little Mount, (Above Swaraj Mazda Show Room), Saidapet, Chennai - 600 015. Tel. (040) 42328003, 42328018. Delhi - 12th Floor, Ambadeep Building, K.G.Marg, Connaught Place, New Delhi - 110 001. Tel. (011) 23315007-10. Kolkata - Constantia 7th Floor, 11, Dr. U. N. Brahmachari Street, Kolkata - 700017. Tel. (033) 30214100, 30214400. Mumbai - A' Wing Ahura Centre, 1st Floor, Mahakali Caves Road, Near M.I.D.C. Office, Andheri (East), Mumbai - 400 093. Tel. (022) 66928400