



## Technical Data Sheet

# FLOCRETE HP

## Concrete Plasticiser

### ADVANTAGES:

Increased workability.

Easier placing compaction and finishing;  
increased strength and durability.

Lower cement content for specified strength  
and workability.

Higher cohesion – reduces risk of  
segregation and bleeding.

Lower water requirement for given  
workability.

### PRODUCT:

Water reducing admixture for concrete  
conforming to BS 5075 : 1982 Part 1;  
IS9103 – 1979 and ASTM C494 type F.

### PURPOSE:

To achieve increased workability without  
loss of strength.

Reduction in cement without loss of  
workability or strength.

To reduce water : cement ratio for any given  
workability.

### DOSAGE:

0.15 to 0.5 litres of Flocrete HP per 50kg  
cement.

### PACK:

5, 20, 50, 100 litre containers.

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**DESCRIPTION:**

FLOCRETE HP is based on processed lignosulphonates and is supplied as a brown liquid.

Generally cement particles tend to clump together. Flocrete HP works by improving the dispersion of the agglomerates within the concrete mix which ensures that the cement is used more efficiently.

**USE IN CONCRETE:**

FLOCRETE HP is a low cost water reducer which can be used to get one or a combination of benefits.

1. **AS A WATER REDUCER:** (For increased strength)  
Reduction in the water cement ratio, to maintain original workability, increase strength.
2. **AS A WORKABILITY AID:** Increased workability can be achieved by using FLOCRETE HP for a given water cement ratio which will increase the flow characteristic of the concrete leading to easy placement, compaction and finishing.
3. **REDUCTION OF CEMENT CONTENT:**  
FLOCRETE HP can be used to reduce cement content to the extent of 8-10% by maintaining the original strength specification and workability and reducing the water content required for the given mix.

**DURABILITY:**

Improved cohesion reduces the risk of segregation and bleeding and reduces laitance and permeability. Increase in density will increase the durability and resistance to attack by aggressive agents, corresponding to control mixes.

**DIRECTIONS FOR USE:**

*Dosage:*

Flocrete HP should be directly added to the concrete mix, preferably with the mixing water.

The optimum dosage rate should be determined by the

trials. The dosage rate is 0.15 litres to 0.4 litres per 50kg cement.

For large site jobs, dispensing equipment can be made use of.

*Over Dosing:*

Dosages up to 0.5 litre / 50kg has no deteterious effect but above this level retardation will occur and may result in slight strength loss if no water reduction is made.

**TYPICAL PROPERTIES:**

Colour	Brown
Specific Gravity	1.18 at 27°C
Chloride Content	Nil as per IS456 & BS 5075 Part 1
Air entrainment	Less than 1% additional air is entrained.

**COMPATIBILITY:**

FLOCRETE HP may be used with OPC and high alumina cements. It can also be used in conjunction with other Don Construction Chemicals Admixtures provided they are added separately to the concrete.

**STORAGE USE:**

Minimum one year if stored below 50°C and in original containers stores under shade.

**HANDLING PRECAUTIONS:**

FLOCRETE HP is non-toxic but ingestion is to be avoided. Any splashes on the skin must be washed with water if contact with eye occurs, wash well immediately with water and seek medical advice.

**HOW TO SPECIFY:**

FLOCRETE HP Concrete Plasticiser shall be used in concrete at the dosage rate of 0.14 litres / 50kg of cement strictly in accordance with the instructions and of the manufacturers Don Construction Chemicals India Ltd.

The information given in this data sheet is based on both current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no control over methods of application, site conditions, etc.

In view of the continuing research and development being undertaken in our laboratories, we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on request.

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