

# PS Dry Mix Concrete

Shrinkage compensated, high flow, ready to use dry concrete



## Product Description

PS Dry Mix Concrete is a cementitious dry powder that on mixing with a specified quantity of water forms shrinkage-compensated concrete free from all defects. It is available in various grades as per client requirements up from M25 to M60.

## Uses

Dry Mix Concrete is suitable for all kinds of RCC structures for:

- Concreting of beams, columns, and other structural elements
- Extensive repairs to beams, columns, and other structural elements
- All kinds of small construction work.

## Characteristics / Advantages

- One component – only addition of water is required
- Shrinkage compensated
- Self-compaction & Self-levelling concrete
- Pourable consistency – faster and easier placing
- Lowered permeability due to controlled w/c ratio

## Product Information

### Packaging

40 kg bags

### Coverage

For M25 ~ M60 Grade mix: Each 40 kg bag of Dry Mix Concrete when mixed with 3.2 Liters of water forms flowable concrete of 17.5 Lit. of yield. It will require approximately 56 to 57 bags x 40 kg (Each) / m<sup>3</sup>

### Storage Conditions

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates, the product must be stored in an air-conditioned environment. Shelf life is 3 months when stored as above. Appearance Dry powder mix with aggregates W/P ratio, by weight, Varies with respect to grade Fresh wet Density 2450 kg/m<sup>3</sup> Compressive strength (ASTM C109, 70 mm cube) 25 MPa to 60 MPa at 28 days

## Mechanical / Physical Properties

### Typical Properties

Appearance	Dry powder mixed with aggregates
W/P ratio by weight	Varies with respect to grade
Fresh wet density	2450 Kg/cum

### Compressive Strength

25 MPa to 60 MPa at 28 days

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## Application Instructions

### Surface preparation

- All the basic precautions to be taken prior to application are same as that of regular concreting.

### Form work

- Proper design of formwork is essential for effective shape. The forms must be of good quality, treated with a chemical release agent for smooth release, strong and well-braced to withstand the fluid pressure of the concrete until it hardens

### Mixing

- Mechanical mixing is necessary. Use a pan-type mixer or a tilting drum-type mixer for larger batch sizes. Place approximately 80% of the water in the mixer. Keep the mixer running and add Dry Mix Concrete slowly. Mix for 3-4 minutes or until a lump-free mix is obtained. Add the remaining water while continuing to mix until the desired consistency is achieved.

### Placing

- Place the prepared mix within 20 minutes by pouring or pumping. Place continuously into the pouring hopper of the formwork until completion. Strike off the formwork after 1 - 3 days

### Curing

- Cure the exposed concrete as soon as it reaches touch hard state, by water OR apply a uniform coat of curing compound by brush, roller, or low-pressure spray immediately after striking formwork.

### Value Base

All technical data stated in this product data sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

### Health & Safety Information

For Information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

### Legal Notes

The information and in particular the recommendations relating to the application and end use of products are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with recommendations. In practice the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information or from any written recommendations or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose reserves the right to change the properties of its products. The Proprietary rights of third Parties must be observed. All orders are accepted subject to our current terms of sale and delivery.

Users must always refer to the most recent issue of the local product Data sheet for the product concerned copies of which will be supplied on request.

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## IPSS Industrial Products

D48 A & B, Rajasthan Industrial Estate Premises CSL,  
Mouje Kothi, Chinchoti Naka,  
Vasai (E) Maharashtra - 401208  
Email: [info@ipss-india.in](mailto:info@ipss-india.in)  
[www.ipss-india.in](http://www.ipss-india.in)