



# DARMA SUPERPLASTICIZER

High Range water reducer



## OVERVIEW

Darma Superplasticizer is a Type F Admixture with an advanced high-range water-reducing agent developed to significantly improve the workability and strength of concrete. It also provides early strength to concrete (Accelerates) as you decrease the water cement ratio.

## PROPERTIES

- ✓ Ideal for precast concrete requiring high early strength and excellent durability.
- ✓ Recommended for complex concrete forms and long-distance pumping.
- ✓ Suitable for high-performance concrete in commercial and residential buildings.
- ✓ Improves workability
- ✓ Can Reduce water content up to 20%
- ✓ Abrasion resistance of cement mix
- ✓ Good slump retention
- ✓ Early strength to the concrete (Accelerates) as you decrease the water cement ratio.

## SURFACE PREPARATION

- Prepare the mold/ formwork properly to avoid any leakage of the admixture

## DOSAGE

- 0.5L-2.5L for 100kg cement
- 0.5-2.5% of the weight cement used

## AREAS OF APPLICATION

- ✓ High Flow Concrete, recommended for pile.
- ✓ Site batched and ready mix concrete.
- ✓ To produce durable and low permeable concrete.

## APPLICATION

- Proportioning concrete raw materials and water
- Mix the components of concrete properly until the concrete is uniform
- Gradually add the appropriate amount of admixture to the moistened concrete
- Cast the concrete on the designated mold/formwork.

## PRODUCT INFORMATION

**Packaging**

Liquid

**Shelf Life**

24 months in original unopened containers

## PRECAUTIONS

- Do not add or deduct the admixture amount from the above mentioned mixing ratio
- When mixing the accelerating agent, you must use a concrete mixing machine
- Cure the casted concrete 4 times a day for 7 days
- Eyes, nose and skin should be protected by wearing security goggles, gloves and dust mask.
- In case of skin contact, wash with plenty of water
- In case of eye contact, rinse cautiously with water for several minutes. Seek medical advice if the irritation continues.

## APPROVAL/CERTIFICATES

- Complies with ASTM C 494 type F/EN 934-2

## Technical data

Appearance	Liquid
Color	Dark Brown
Density	1.2±0.05
PH	6.5±0.5
Total Chloride ion content	<0.1% (EN 934-2)

## COMPATIBILITY

- Darma Superplasticizer is compatible with all types of Portland cement.
- Darma Superplasticizer maybe combined with many other Darma Products. Trials must always carried out before combining products in specific Mix.

N.B. 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.



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