



**Bondtuf**<sup>TM</sup>  
CONSTRUCTION CHEMICALS



## **BOND TUF SPL 2**

Super Plasticiser Cum Set Retarder For Concrete

**BOND TUF CHEMICALS PVT. LTD.**

AN ISO 9001 : 2015 COMPANY

[www.bondtuf.com](http://www.bondtuf.com)

## BONDUF SPL 2

### Super Plasticiser Cum Set Retarder For Concrete

#### DESCRIPTION

Bondtuf SPL 2 is a chloride free, super plasticising admixture based on selected sulphonated naphthalene formaldehyde. It is supplied as a brown solution which instantly disperses in water. Bondtuf SPL 2 disperses the fine particles in the concrete mix, enabling the water content of the concrete to perform more effectively. The very high levels of water reduction possible allow major increases in strength to be obtained.

#### CHARACTERISTICS

- Appearance : Brown liquid  
Specific gravity : Typically 1.20 at 20°C (gm/cc)  
Chloride content : Nil as per BS 5075  
Air entrainment : Typically less than 2% additional air is entrained at normal dosages.  
Alkali content : Typically less than 72.0 g. Na<sub>2</sub>O equivalent/litre of admixture.  
A fact sheet on this subject is available.

#### ADVANTAGES / BENEFIT

Major increases in strength at early ages without increased cement contents are of particular benefit in precast concrete, allowing earlier stripping times. Makes possible major reductions in water: cement ratio which allow the production of high strength concrete without excessive cement contents. Use in production of flowing concrete permits easier construction with quicker placing and compaction and reduced labour costs without increasing water content. Increased workability levels are maintained for longer than with ordinary sulphonated naphthalene admixtures. Improved cohesion and particle dispersion minimises segregation and bleeding and improves pumpability. Chloride free, safe for use in prestressed and reinforced concrete. In screed material, the lower water content leads to quicker drying times

#### DIRECTIONS FOR USAGE

- ❖ Where the primary intention is to improve strengths, initial trials should be made with normal concrete mix designs. The addition of the admixture will allow the removal of water from the mix whilst maintaining the workability at the levels obtained before the use of the admixture. After initial trials, minor modifications to the overall mix design may be made to optimise performance.
- ❖ Where the primary intention is to provide high workability concrete, the starting mix design should be one suitable for use as a pump mix. Advice on mix design for flowing concrete is available from the Bondtuf Customer Service Department.
- ❖ In correctly designed flowing concrete, the improved dispersion of the cement particles and the more efficient use of mixing water will improve mix cohesion. The slight air entrainment obtained with Conplast SP430 will also help to minimise bleed and segregation. After initial trials, minor modifications to the mix design may be made to optimise performance.

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#### CONSUMPTION

300 -700 ml. per bag of 50 kg cement depends on the mix design.

#### AREAS OF APPLICATION

Particularly suitable for precast concrete and other high early strength requirements. To significantly improve the workability of site mixed and precast concrete without increasing water demand. To provide improved durability by increasing ultimate strengths and reducing concrete permeability.

#### PRECAUTIONS

Bondtuf SPL 2 is compatible with other Bondtuf admixtures used in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The resultant properties of concrete containing more than one admixture should be assessed by the trial mix procedure recommended on this data sheet to ensure that effects such as unwanted retardation do not occur. Bondtuf SPL 2 is suitable for use with all types of ordinary Portland cements and cement replacement materials such as PFA, GGBFS and silica fume

#### SUPPLY

Bondtuf SPL 2 is available in 5, 20&240 Kg drums or bulk supply. For larger users, storage tanks can be supplied. Details of specific packaging volumes are available on request.

#### SHELF LIFE

Bondtuf SPL 2 has a minimum shelf life of 12 months provided the temperature is kept within the range of 20 deg C to 50°C. Should the temperature of the product fall outside this range then the Bondtuf Customer Service Department should be contacted for advice. Freezing point: Approximately -2°C

#### TECHNICAL SUPPORT

Bondtuf provides a technical advisory service for on-site assistance and advice on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.

#### IMPORTANT NOTE

Bondtuf products undergo high standard quality checks and every reasonable precaution is taken in the manufacture of all products. BONDUF continuously strive to ensure the products, recommendations, specification & information given is reliable, correct and accurate. No specific guarantee can be assured as product performance depends not only on quality but also on many other factors which are not under our control. The customer should make his own trails to determine the compatibility of the product for his own purpose. All products are sold subject to our standard terms and conditions of sale.

#### BONDUF PRODUCT RANGE

WATERPROOFING COMPOUNDS | REPAIRS & REHABILITATION AGENTS | ADMIXTURES & CONCRETE TREATMENT  
FOUNDATION GROUTS & FLOOR HARDENER | EPOXY COATINGS & SCREEDS | TILE & STONE FIXING ADHESIVES

#### BONDUF CHEMICALS PVT. LTD.

Plot No.30, Techno Craft Industrial Estate, Phase -1, Balanagar, Hyderabad - 500 037.  
Telangana, India. M: +91 98480 51034, Email: admin@bondtuf.com