

PRODUCTNAME

Adi-Con® SP 100

High Range Water Reducing Agent

MANUFACTURER

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FEATURES

- Flow, self-levelling
- Aids in pumping
- Low water-cement ratio- reduction of up to 30%
- High slump life
- Improved concrete durability
- High early and ultimate strengths
- Allows to use less cement
- Economical
- Decreased vibration
- No chlorides
- Non-toxic

PRODUCT DESCRIPTION

Basic Use

Adi-Con SP 100 is a highly active high range water reducing agent, (superplasticizer) specifically developed to produce high-strength and/or increased slump concrete. It is an effective dispersant, fluidifier and high range water reducing agent (superplasticizer), which produces excellent rheological properties in concrete. Adi-Con SP 100 improves the flow properties of the mix by breaking up cement agglomerates.

Adi-Con SP 100 may be used to increase the mechanical properties of concrete; i.e. compressive and flexural strengths and modulus of elasticity. Adi-Con SP 100 can be used to achieve the following concrete characteristics:

- Flowing self-levelling
- High early strength
- High workability with low water content
- Low water-to-cement ratio (reduction of up to 35%)
- Reduced cement content
- Very high strength

Adi-Con SP 100 applications include:

- Pumping concrete
- Concrete for underwater use
- Precasting
- Architectural concrete
- Specially shaped concrete slabs
- Fly ash concrete

- Blast furnace slag cement concrete
- Light-weight concrete

Composition and Materials

Adi-Con SP 100 is based on sodium salt of sulfonated phenol formaldehyde condensate. It is supplied as light brown powder. (It can be also supplied as a liquid).

Health and Safety

Adi-Con SP 100 is a mildly alkaline material. May be harmful if swallowed. Avoid contact with eyes and prolonged contact with skin. If contact occurs, flush immediately with water. Seek medical advice if irritation occurs. Harmful if inhaled. Keep product out of reach of children. FOR INDUSTRIAL USE ONLY. Consult MSDS for additional information. Wash thoroughly after handling. Do not take internally. For more details, see our MSDS.

Color

Light brown

Dosage

Adi-Con SP 100 is dosed at 0.4 - 0.8 % by weight of cement. Other dosages may be required depending on specific conditions. It may be also dissolved in water and added as a solution. Please contact Gemite Technical Service for detail information.

Packaging

Adi-Con SP 100 is supplied in 25 kg (55.1 lb) bags. Storage at room temperature is recommended.

Storage and Transportation

Adi-Con SP 100 when stored on pallets in a dry, cool area, has a shelf-life of 5 years. The liquid additive must not freeze. Packaged 50 bags per pallet.

TECHNICAL DATA

Solids content	93%
Sulfate content	2.7%
pH of 10% solution	8.0
Bulk Density	0.70 g/cc
Ionic nature	anionic
Solubility	soluble in hard and soft water
Appearance	light brown powder

Adi-Con SP 100 complies with the requirements of CSA CAN3-A266-6-M85, Superplasticizing admixtures for concrete; ASTM C- 494, Types A and F; US Army Corps of Engineers CRD C- 87, Types A and F; AASHTO M - 194, Types A and F.