

Admixtures For Improving Concrete & Mortar Properties

Addicrete BVS

High Range Water Reducing, Super Plasticiser and Set Retarding Concrete Admixture.

Standard Specification:

- **ADDICRETE BVS** is a super plasticiser Complies with ASTM C 494 type G (subsequently types A,B), EN 934 - 2 and ES 1899.

Description:

- **ADDICRETE BVS** is a light brown ready to use aqueous solution, based on organic compounds.

Fields of Use:

- **ADDICRETE BVS** can be used with all types of cement to achieve the following properties.
- To delay and control the setting of concrete specifically in hot weather concreting.
- To produce concrete with high, early and final strength, which is used to produce concrete for bridges, factories, pre-cast and prestressed concrete elements.
- To reduce consumption of cement without loss of workability or strength.

Advantages:

- Prevents honey-combing in the case of high percentage of reinforcement.
- Is a high quality super - plasticiser with retarding effect.
- Is chloride free.
- Can be used with higher dosages to allow for maximum water reduction without any harmful side effects.
- Enables highest reduction in cement and secures higher strengths.
- Produces self-levelling concrete and mortar.
- Minimizes shrinkage and produces concrete that is virtually non shrink.
- Increases both early and final strengths.

Technical Data :(at 25°C)

Base	Sodium ligno sulphonate + Napthalin sulphonate
Appearance	Brown liquid.
Density	1.21 ± 0.01 kg/l
Chloride content	Nil
Air entrainment	Nil
Compatibility	All types of Portland cement

Directions for Use:

- **ADDICRETE BVS** is preferably added to concrete during the mixing process or to the mixing water.

Rate of Use :

- Normal dosage: from 0.15% to 2% by weight of cement to increase workability without adding extra water or otherwise, to increase compression strength and keeping the same workability.
- Dosage could be up to 3% by weight of cement, In all cases site trials are strongly recommended for accurate determination of the dosage according to the type and amount of cement, type of aggregates , required concrete slump and targeted compression strength.

Safety Precautions:

- **ADDICRETE BVS** is non-flammable and non-toxic.
- Wash any splashes to the eyes immediately with water.
- For accidental release use an absorbent inert material as sand, then collect up and place in suitable container.

Storage:

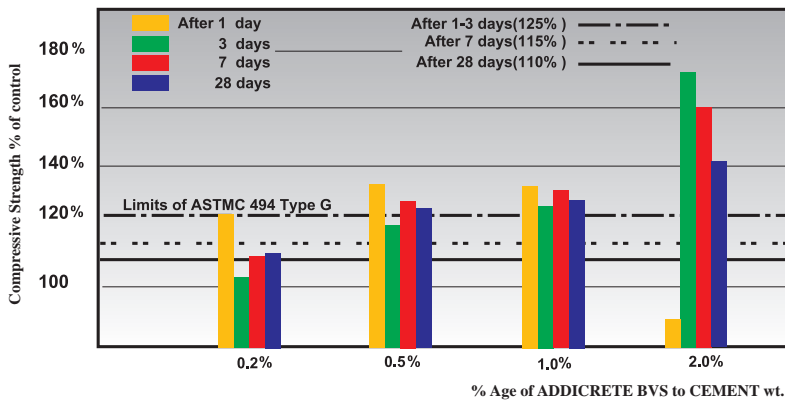
- 18 months under suitable storage conditions.

Packages:

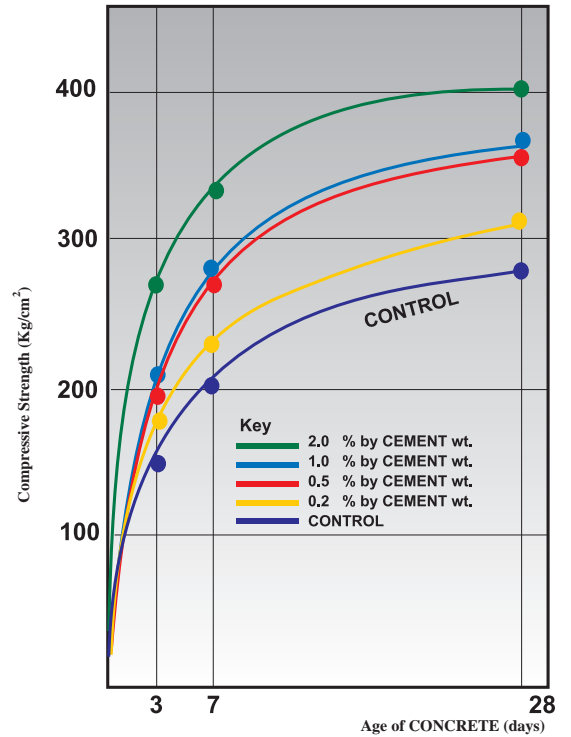
- 20 kg, and 200 kg.



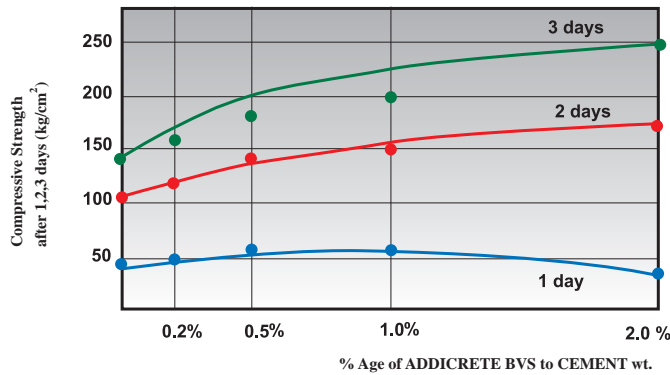
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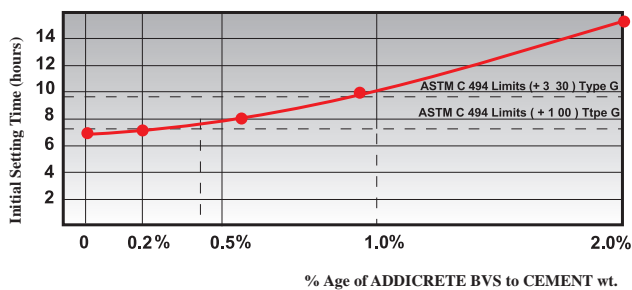
Effect of ADDICRETE BVS on Compressive Strength Related to Control Strength



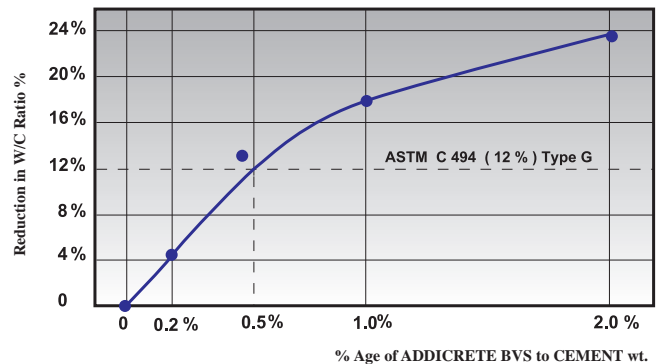
Effect of ADDICRETE BVS on Compressive Strength



Effect of ADDICRETE BVS on Earlier Compressive Strength (after 1, 2, 3 days)



Effect of ADDICRETE BVS on Setting Time



Effect of ADDICRETE BVS on Reduction of w/c

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Basic CEMENT content for PLASTIC CONCRETE Mixes Without ADDICRETE BVS (kg / m³)

