Addicrete BVF
High Range Water Reducing, Super Plasticiser Concrete Admixture.

Standard Specification:
- **ADDICRETE BVF** complies with ASTM C 494 type F (Subsequently type A), EN 934–2 and ES 1899.

Description:
- **ADDICRETE BVF** is super plasticiser and high range water reducer without retarding effect for both concrete and mortar.
- **ADDICRETE BVF** is a brown liquid ready to use concrete admixture.

Fields of Use:
- **ADDICRETE BVF** is suitable for bridges, factories, precast and prestressed concrete elements.
- It produces high early compressive strength which enables the early stripping of the concrete formwork.

Advantages:
- The very strong plasticiser effect (without retarding effect) of **ADDICRETE BVF** enables high reduction in water cement ratio and consequently high increase in concrete strength specially the early strength and even at low temperatures.
- Produces self levelling concrete and mortar.
- Minimizes shrinkage and produces a virtually non-shrink concrete.
- Minimizes the bleeding of concrete and the segregation of aggregate.
- Reduces the shrinkage and the drying cracks.
- Increase the density, uniformity, durability and the resistance of concrete to aggressive agent.

Technical Data: (at 25°C)

<table>
<thead>
<tr>
<th>Base</th>
<th>Naphthalin sulphonate</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Brown liquid</td>
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<tr>
<td>Density</td>
<td>1.18 ± 0.01 kg/l</td>
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<tr>
<td>Chloride content</td>
<td>Nil</td>
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<tr>
<td>Air entrainment</td>
<td>Nil</td>
</tr>
<tr>
<td>Compatibility</td>
<td>All types of Portland cement</td>
</tr>
</tbody>
</table>

Directions for Use:
- **ADDICRETE BVF** is preferably added to concrete during the mixing process or to the water prior to concrete mixing.

Rate of Use:
- Normal dosage 0.3-0.6 % of cement weight (1-2 kg/m³ of concrete).
- The dosage can be increased to 2- 4% of cement weight until the maximum allowable reduction in water/cement is reached to allow for the maximum possible strength.
- Actual dosage should be established from trial mixes to suit site requirements.

Safety Precautions:
- **ADDICRETE BVF** 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.
Admixtures For Improving Concrete & Mortar Properties

**Effect of ADDICRETE BVF on Compressive Strength Related to Control Strength**

![Graph showing the effect of ADDICRETE BVF on compressive strength related to control strength.](image)

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

![Graph showing the effect of ADDICRETE BVF on earlier compressive strength.](image)

**Effect of ADDICRETE BVF on Reduction of W/C**

![Graph showing the effect of ADDICRETE BVF on the reduction of W/C.](image)

**Effect of ADDICRETE BVF on Setting Time**

![Graph showing the effect of ADDICRETE BVF on setting time.](image)