

PRODUCT NAME

# Adi-Con VCA 100

## Viscosity control admixture for concrete and mortars



MANUFACTURER

Gemite® Products Inc.

|                            |                              |
|----------------------------|------------------------------|
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### PRODUCT DESCRIPTION

#### Features

- Enhances self-compacting in mortars and concrete (SCC)
- Eliminates vibration
- Allows a high degree of self-leveling
- Easy to use
- Increases strength
- Increases adhesion to substrate

#### Basic Use

Adi-Con™ VCA 100 is used as an admixture to Portland cement in formulating self-compacting concrete (SCC). It is also used in Portland Cement based mortars in floor topping applications. It permits an easy application of self-compacting, easy spread topping layer.

#### Composition and Materials

Adi-Con VCA 100 is a proprietary blend of chemicals used to provide self-compacting characteristics to Portland cement based mortar and concrete mixes. It must be used together with superplasticizers *Adi-Con SP 200* or *Adi-Con SP 500*.

#### Limitations

Do not apply SCC concrete (mortar) when the temperature is expected to go below 4 °C (40 °F) within 24 hours or when rain is imminent. The proper surface preparation is essential for a successful application. Gemite Technical Service before starting a project, to ensure that the correct surface preparation and application procedures are followed, especially when applied to previously treated substrates.

#### Health and Safety

Adi-Con VCA 100 is non-toxic and non-flammable. Your skin might be sensitive to cement. We recommend use of rubber gloves. Avoid contact with eyes and prolonged contact with skin. If contact occurs, flush immediately with water. Seek medical advice if irritation occurs. Harmful if digested. Keep product out of reach of children. FOR INDUSTRIAL USE ONLY.

### TECHNICAL DATA

|                     |                 |
|---------------------|-----------------|
| Color               | white powder    |
| Chemical family     | Polysaccharides |
| Toxicity            | non-toxic       |
| Solubility in water | 100%            |

#### Packaging

Adi-Con VCA 100 is available in 20 kg (50 lbs) bags.

#### Storage and Transportation

Adi-Con VCA 100 stored on pallets in a cool, dry area has a shelf-life of 24 months.

#### Dosage

The self-compacting properties and segregation control are controlled by the mix design. The fines, such silica flour or ground calcite must be used to provide good self-compacting and leveling characteristics of the mortar. The typical dosage of *Adi-Con VCA 100* is approximately 450-500 grams per cubic meter of concrete. Superplasticizers *Adi-Con SP 200* or *Adi-Con SP 500* should be used in formulating SCC concrete. The mix designs must be tested for flowability, segregation characteristics and strength prior to field application. If air entraining admixtures are used, the air content and spacing factor must be tested. Please contact Gemite Technical service for further information regarding formulating self-compacting concrete.

#### Mixing

Dissolve the *Adi-Con VCA 100* in the part of the *Adi-Con 200* or *Adi-Con 500*. Please contact Gemite Technical Service for more information regarding the mixing of *Adi-Con VCA 100*.

#### Curing

The applied SCC concrete topping must be protected against rapid water evaporation. Use fogging or *Adi-Con SER* (surface evaporation retarder) between the placement and the final set of concrete. For detail information please Contact Gemite Products Technical Service.

#### AVAILABILITY AND COST

Adi-Con VCA 100 is available worldwide. Contact the manufacturer for the name of the nearest Representative/Distributor and pricing information.

#### WARRANTY

A limited twelve (12) month Material Replacement Warranty is available. For complete details contact Gemite's Head Office.

Gemite Products Inc.  
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Self-compacting Concrete (SCC)