

ADVA[®] 140

High Range Water Reducer ASTM C 494, Type A and F

Description

ADVA[®] 140 is a high range water-reducing admixture. ADVA 140 contains no added chloride.

ADVA 140 meets the requirements of ASTM C 494, Type A and F. One liter weighs approximately 1.05 kg (8.8 lbs/gal).



Dispersion

ADVA 140 is a superior dispersing admixture having a marked capacity to disperse the cement agglomerates normally found in a cement-water suspension.

Uses

ADVA 140 has been used successfully in a wide variety of concrete applications, including flatwork in residential applications. ADVA 140 produces concrete with excellent workability characteristics for high slump, flowing concrete. It also allows concrete to be produced with low water/cementitious ratios at low or high slumps.

ADVA 140 is ideal for use in any concrete where it is desired to keep the water/cementitious ratio to a minimum and still achieve the degree of workability necessary to provide easy placement and consolidation. ADVA 140 will also fluidize concrete making it ideal for tremie concreting or other applications where high slumps are desired.

Advantages

1. ADVA 140 is highly efficient, producing high slump, high strength concrete.
2. ADVA 140 may be added to concrete mix water for rapid batching.
3. ADVA 140 provides a superior combination of long slump life with near neutral set time.
4. ADVA 140 concrete finishes easily without stickiness, tearing or spotty set characteristics.



Addition Rates

Addition rates of ADVA 140 can vary with type of application, but will normally range from 260 to 1300 mL/100 kg (4 to 20 fl oz/100 lbs) of cement. ADVA 140 may be added to the initial mix water or with a delayed addition.

At a given water/cementitious ratio, the slump required for placement can be controlled by varying the addition rate. Should job site conditions require using more than recommended addition rates, please consult your Grace Representative.

Compatibility

In concrete containing ADVA 140 the use of an air-entraining agent (such as Daravair® and Darex® brand Air-Entraining Admixtures) is recommended to provide suitable air void parameters for resistance against freeze-thaw attack. Please consult your Grace Representative for dosage guidance.


Most Type A water reducers or Type D water-reducing retarders are compatible with ADVA 140 as long as they are separately added to the concrete. Normally these admixtures are added to concrete before the ADVA 140. Caution should be exercised when using ADVA 140 together with a retarder, as excessive retardation can occur if the admixture dosages are too high. Pre-testing of the concrete should be performed to optimize dosages and addition times of these admixtures. The admixtures should not contact each other before they enter the concrete.

Packaging

ADVA 140 is available in bulk, delivered by metered tank trucks, in 1250 L (330 gal) disposable totes, and in 208 L (55 gal) drums.

It will begin to freeze at approximately 0°C (32°F), but will return to full strength after thawing and thorough agitation.

In storage, and for proper dispensing, ADVA 140 should not experience prolonged exposure below 0°C (32°F) nor above 55°C (132°F).

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