TECHNICAL DATA SHEET

Chryso Concrete Solutions

07/10/2026

ADVA® CAST 640

High Range Water Reducing Admixture

DESCRIPTION

ADVA® CAST 640 is a polycarboxylic high range water reducing admixture. ADVA® CAST 640 is specially designed for producing superior high early strength concrete in precast applications.

ADVA® CAST 640 does not contain added chloride or triethanolamine. ADVA® CAST 640 complies with AS 1478, Type HWR.

BENEFITS

- Accelerates cement hydration with efficient dispersion effect
- Slump retention to place concrete in large precast units/high temperature regions
- High workability for faster placement and improved mix consolidation
- Exhibits superior water reduction and superior surface finish without stickiness, tearing / spotty set features
- Optimises precast concrete production to remove the need for heat curing

APPLICATION

- Concrete for precast structural elements with high early strength
- Low water-cement ratios concrete in low to high placement slump ranges

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Yellow
Lifetime	12 months
Specific gravity (kg)	1,070 ± 0,010
pH	5,50 ± 1,00

PACKAGING

- Bulk
- IBC 1000L
- 205 L Drum
- Pail

SAFETY

Prior to any use, please read carefully the Safety Data Sheet (SDS).

METHOD OF USE

Dosage :

Dosage rates of ADVA® CAST 640 can vary with type of applications, but normally ranges from 200 to 600 ml / 100 kg of cementitious material. In most instances, dose of 300 to 600 ml / 100 kg of cementitious material is sufficient. Should conditions require using more than recommended dosage rates, please consult your local Chryso representative.

Equipment :

Please contact your local Chryso representative for further information regarding the dispensing equipment for this product.

COMPATIBILITY

- Water-reducing admixtures, admixtures like accelerators, DCI® corrosion inhibitor, Chryso®Eclipse shrinkage reducing admixture and V-MAR® 3 rheology-modifying admixture
- Compatible with POLARSET® NC 300 and Daratain® SE
- When using admixtures in combination, each admixture should be added separately to the mix

PRECAUTIONS

- ADVA® CAST 640 contains no flammable ingredients
- ADVA® CAST 640 will begin to freeze at approximately 0ºC but will return to full strength after thawing and thorough agitation
- In storage, and for proper dispensing, ADVA® CAST 640 should be maintained at temperatures above 0°C

The information contained in this document is given to the best of our knowledge and is the result of extensive and controlled testing. However,it cannot under any circumstances be considered as a warranty involving our liability in the case of misuse. Tests should be con ducted before the product is used to ensure that the methods and conditions of use of the product are satisfactory. Our specialists remain at the disposal of customers if they require help with the application of the product for their specific needs.

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