TECHNICAL DATA SHEET

Chryso Concrete Solutions

11/03/2026

Chryso®Optec EC-978 (formerly OPTEC® EC-978)

Efflorescence treatment product

DESCRIPTION

Chryso®Optec EC-978 admixture provides color enhancement and efflorescence control to the concrete roof tile industry. It is formulated as a ready-to-use admixture to aid the extrusion process and enhance the quality and appearance of concrete roof tile.

ADVANTAGES

- Improves cement and pigment dispersion
- Minimizes efflorescence
- Enhances color
- Aids extrusion process
- Lowers absorption

Method of Use

Dosage

- Chryso®Optec EC-978 admixture is generally used at a rate of 6–12 oz/cwt (400–800 mL/100 kg) of cementitious materials including pozzolans. The addition rate is dependent upon the specific materials used and the desired end properties.
- Chryso®Optec EC-978 should be added separately to the mix after the initial wetting of the cement and before or with the addition of the final mix water. Once Chryso®Optec EC-978 is batched, it should be mixed for a minimum of one minute, but preferably two minutes. Mix times of less than one minute should be avoided. Never add Chryso®Optec EC-978 to dry cement.

Additional Usage Recommendations

- Chryso®Optec EC-978 admixture is designed for the efficient production of concrete roof tile. However, it can also be used in other manufactured concrete products such as architectural concrete masonry units and hardscape concrete products such as segmental retaining wall units and pavers. Chryso®Optec EC-978 improves color, via reduced efflorescence on concrete roof tile.
- Chryso®Optec EC-978 admixture interacts with the cement and pigment and helps to uniformly disperse them in the mixture. Chryso ®Optec EC-978 also lubricates the mixture aiding the roof tile extrusion process.
- Chryso®Optec EC-978 reacts with the hydrating cement to produce a hard, less permeable surface and helps inhibit the formation of unsightly efflorescence on the surface of the concrete roof tile.
- Chryso®Optec EC-978 may allow for a reduction of acrylic coatings used to protect the surface of the concrete roof tile. But, testing with local materials, production equipment and storage conditions is necessary to determine whether the acrylic coating can be reduced.

Complimentary Products

- Chryso®Optec EC-978 is compatible with other Chryso admixtures. When multiple admixtures are used however, they must be added separately to the concrete mixture. Variables such as cementitious content, aggregate gradations, processing equipment, and curing conditions may have an impact on the effectiveness of Chryso®Optec EC-978. Testing with local materials and production equipment is necessary to determine the end results

The information contained in this technical data sheet is given to the best of our knowledge and the result from extensive testing - which were conducted in order to remain as objective as possible. However, it cannot, in any case, be considered as a warranty involving our liability in case of misuse or any different use of our products, other than those from the "Applcation" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users.

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CHARACTERISTICS

Product Nature	Liquid
Color	Off-white
Apparent density	0,980
pH (25°C)	5,00

PACKAGING

- 210 L (55 Gallons) Drum
- 1000L Tote (275 gallons)

PRECAUTIONS

- Chryso®Optec EC-978 must be protected from freezing at temperatures of 32 °F (0 °C) and below, as the admixture is not usable once frozen. Chryso®Optec EC-978 has a shelf life of approximately six months from the date of manufacture.
  Mechanical agitation may be required when stored for a period greater than 30 days.

SAFETY

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

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