

SILESTER[®] XAR

Ethyl Silicates

SILESTER[®] XAR is a ready-to-use, prehydrolyzed ethyl silicate hybrid binder. The solvent in SILESTER[®] XAR is a mixture of ethanol and 2-propanol.

Properties

The main difference between ethyl silicate hybrid binders and conventional acid-catalyzed ethyl silicate hydrolyzates is that the binder (SiO₂) generated during setting is formed from ethyl silicate and another source of amorphous silica. Due to their special formulation and the technology used in their manufacture, hybrid binders have very good storage stability and processing properties.

Technical data

General Characteristics

Property	Condition	Value	Method
Appearance	-	turbid, white fluid	-
Diluent	-	Ethanol and i-Propanol	-
Flash point	-	12 °C	DIN 51755
SiO ₂ -Content	-	19 - 21 %	-

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- Anti-Corrosive Coatings
- Marine & Protective Coatings

Application details

SILESTER® XAR is ready for use and may be processed straight away to ceramic slips, ramming mixes and anticorrosion paints. Its degree of hydrolysis and pH have been optimized so as to provide the necessary reactivity and adequate storage stability. A change in pH, e. g. arising from addition of fillers, pigments, various additives or solvent evaporation, promotes condensation of the ethyl silicate and the system will cure more quickly. It is also important that the added components do not introduce uncontrolled amounts of water into the system as this would adversely affect the processing time / shelf life of the formulation. SILESTER® XAR is primarily used to make: - Ceramic casting molds, e. g. by the lost wax method. - refractory products - 2-pack anticorrosion zinc-rich paints, especially shop primers.

Packaging and storage

Storage

The 'Best use before end' date of each batch is shown on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

QR Code SILESTER® XAR



For technical, quality or product safety questions, please contact:

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