

ETONIS[®] 7142 A

Polymer Dispersions

ETONIS[®] 7142 A is a vinyl acetate-ethylene copolymer dispersion with a glass transition temperature (T_g) of -15 °C and is used in asphalt emulsion based applications. ETONIS[®] 7142 A imparts excellent film flexibility, adhesion, and faster drying time.

Properties

ETONIS[®] 7142 A can be compounded with asphalt emulsion and is combinable with common additives such as emulsifier, defoamer, thickeners and fillers. In asphalt emulsions, ETONIS[®] 7142 A is compatible with both cationic and anionic systems. ETONIS[®] 7142 A improves rheology, adhesion, tack, enhances flexural strength, flexibility, drying, abrasion and oil/fuel resistance.

Technical data

General Characteristics

Property	Condition	Value	Method
Frost resistance	-	protect from freezing	specific method
Protective colloid / emulsifier system	-	polyvinyl alcohol	-
Glass transition temperature	-	approx. -15.0 °C	DSC, specific method
Dry tack	-	none	specific method
Film clarity	-	slightly hazy	specific method
Flexibility	-	excellent	specific method
Mechanical stability	-	excellent	specific method
Thickening response	-	high	specific method
Water resistance	-	Moderate	specific method
Wet tack	-	high	specific method

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.

Protect against frost.

Application details

ETONIS® 7142 A is suitable for modifying both anionic and cationic asphalt emulsions where rapid setting speeds, good machining, and easy clean-up properties are required. It is used in waterproofing, roofing, tack coat, chip seal, fog seal, scrub seal, micro surfacing and sealers, and other cold asphalt applications.

If ETONIS® 7142 A is used in applications other than those mentioned, the choice, processing and use of ETONIS® 7142A is the sole responsibility of the purchaser. All legal and other regulations must be complied with. Slight discoloration may occur without impairing the product's functionality.

ETONIS® 7142 A may be used with both anionic and cationic asphalt emulsions. ETONIS® 7142 A can be incorporated into asphalt emulsion through addition to the soap solution (batch process) or via co-milling (continuous process). It may also be added directly to the asphalt emulsion with minimal stirring. The amount of ETONIS® 7142 A needed to modify cold asphalt emulsions ranges from 1.0 - 5. % v/v relative to the asphalt emulsion. The amounts used in special applications for higher ductility, flexibility and elongation may be considerably higher. The exact amount will depend on the requirements profile.

Packaging and storage

Packaging

Totes and Bulk.

Storage

When ETONIS® 7142 A is stored in tanks, proper storage conditions must be maintained. It should be stored in the original, unopened containers at cool (below 30 °C), but frost-free temperatures. ETONIS® 7142 A has a shelf life of 9 months from the date of manufacture. Iron or galvanized-iron equipment and containers are not recommended because the dispersion is slightly acidic. Corrosion may result in discoloration of the dispersion or its blends when further processed. Therefore the use of containers and equipment made of ceramics, rubberized or enameled materials, appropriately finished stainless steel, or plastic (e.g. rigid PVC, polyethylene or polyester resin) is recommended. As polymer dispersions may tend to superficial film formation, skins or lumps may form during storage or transportation. Filtration is therefore recommended prior to utilization of the product.

ETONIS® 7142 A is adequately preserved during transportation and storage if kept in the original, unopened containers. However, if it is transferred to storage tanks, the dispersion should be protected against microbial attack by adding a suitable preservative package. To maintain proper storage conditions appropriate measures should also be taken to ensure cleanliness of the tanks and pipes. In a storage tank in which ETONIS® 7142 A is not stirred, it is advisable to contact your biocide representative/supplier. Proper procedures must be set up in order to prevent microbial attack between necessary periodic tank cleaning and sanitization. These procedures will vary, since loading and unloading practices in each storage situation will differ slightly. Finished products manufactured from polymer dispersions usually also require preservation. The type and scope of preservation will depend on the raw materials used and the anticipated sources of contamination. The compatibility with other components and the efficacy of the preservative should always be tested in the respective formulation. Preservative manufacturers will be able to advise you about the type and dosage of preservative required.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. These are available on request from WACKER sales offices.

QR Code ETONIS® 7142 A



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

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