

ETONIS[®] 5150 P

Polymer Dispersions

ETONIS[®] 5150 P is a ready-to-use polymer dispersion for special concrete applications.

Properties

- ETONIS[®] 5150 P optimizes the adhesion and cohesion of the entire system.
- It significantly reduces spray rebound while greatly improving adhesion to all substrates, particularly wet surfaces.
- Concrete modified with ETONIS[®] 5150 P seals against pressing water and optimizes flow and compaction properties, while improving ultimate strength and CO₂ resistance.

Technical data

Specification

Property	Condition	Value	Method
Solids content	-	51.5 - 54.5 %	DIN EN ISO 3251
pH	-	3.0 - 4.5	DIN/ISO 976
Viscosity, dynamic	-	100 - 400 mPa·s	DIN EN ISO 2555

General Characteristics

Property	Condition	Value	Method
Density	-	approx. 1.06 g/cm ³	ISO 2811
Appearance	-	milky-opaque	Visual
Application temperature	-	0 - 60 °C	-

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

- Water Management and Tunneling

Application details

ETONIS® 5150 P is particularly suitable for modifying concrete, especially for shotcrete applications in underground construction, tunneling and mining.

Processing

ETONIS® 5150 P is suitable for both wet and dry spraying. It can be added either to the ready-mixed concrete or to the gauging water. ETONIS® 5150 P allows low water/cement ratios to be used. The modified concrete can be efficiently processed, with low dust and no separation. It can be adjusted to technical requirements on-site. When calculating the water/cement ratio, the water content of ETONIS® 5150 P should be added to the water content of the concrete.

Consumption

Using ETONIS® 5150 P cuts system costs by reducing material consumption (e.g. rebound), time and labor. Overall, energy costs are reduced.

Additional information

If the product is used in applications other than those mentioned, the choice, processing and use of the product is the sole responsibility of the purchaser. All legal and other regulations must be complied with.

For questions concerning food contact status according the chapter 21 CFR (US FDA) and German BfR, please feel free to contact us.

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Packaging and storage

Packaging

Non-returnable PE drums of 150 kg capacity (standard dispatch quantity: only fully-loaded pallets à 750 kg), non-returnable containers of 1 t capacity and road tankers.

Storage

When the dispersion is stored in tanks, proper storage conditions must be maintained. ETONIS® 5150 P has a shelf life of 6 months starting from the date of receipt if stored under cool (below 25 °C) but frost-free conditions in the original, unopened containers. Iron or galvanized iron containers and equipment are not recommended, because the dispersion is slightly acidic. Corrosion could result in discoloration of the dispersion or blends made from it in further processing. We therefore recommend the use of containers and equipment made of ceramic, rubberized or enameled materials, appropriately finished stainless steel, or plastic (rigid PVC, polyethylene or polyester resin). 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.

Preservation for Transport, Storage and further Processing

ETONIS® 5150 P is adequately preserved during transportation and storage if kept in the original, unopened containers. When stored in tanks, the dispersion should be modified with a preservative to prevent microbial contamination. Suitable measures should be taken to ensure that the tanks are properly clean. In storage tanks in which the product is not stirred, it is advisable to cover the surface of the dispersion with 1 - 2 cm of water, to which a preservative has been added. This will prevent skin formation and microbial contamination. In the case of storage in silos, it is important that the air drawn into the silo when the product is discharged is also kept free of germs. As a rule, all finished products manufactured from polymer dispersions also require preservation. The type and extent of preservation will depend on the raw materials used and the anticipated sources of contamination. The compatibility and effectiveness of the preservatives should be checked for a given formulation. Preservative manufacturers will be able to advise you on the type and amount of conservation agent to use.

Safety notes

Detailed safety information is contained in each Material Safety Data Sheet, which can be obtained from our sales offices.

QR Code ETONIS® 5150 P



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

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