

# PRIMIS<sup>®</sup> SAF 9800



## Polymer Dispersions

is a fine particle size polymer dispersion for use in liquid, non-cementitious products. In construction applications, is used as an impregnation, primer and for surface treatment. In paints and coatings, can be used as a co-binder for high-performance wall paints for interior and exterior use, as well as in ready-to-use dispersion-based plasters. The binder technology of is based on a hard styrene/acrylic acid ester copolymer. The product is currently in the process of introduction into industrial use (scale-up product). The quoted product data are therefore subject to change. Before industrial use, the availability should be clarified with WACKER POLYMERS.

## Properties

- Very good penetration on porous substrates due to the fine particle size and low viscosity of the dispersion
- Formation of polymer films with very good hydrophobic and oil-repellent properties
- Easy to clean
- Improved substrate-strengthening and mechanical properties
- Improved block resistance

## Technical data

### Specification

| Property           | Condition                      | Value          | Method          |
|--------------------|--------------------------------|----------------|-----------------|
| Solids content     | -                              | 41 - 43 %      | DIN EN ISO 3251 |
| Viscosity, dynamic | Brookfield, spindle 1 / 20 rpm | 50 - 500 mPa·s | DIN EN ISO 2555 |
| pH                 | -                              | 6.5 - 7.5      | DIN/ISO 976     |

## General Characteristics

| Property                               | Condition | Value                      | Method          |
|--|-----------|----------------------------|-----------------|
| Minimum film forming temperature       | -         | approx. 13 °C              | DIN ISO 2115    |
| Protective colloid / emulsifier system | -         | surface active emulsifiers | -               |
| Appearance of the dispersion film      | -         | glossy                     | Visual          |
| Glass transition temperature           | -         | approx. 17 °C              | specific method |
| Compatibility with cement              | -         | incompatible               | specific method |
| Predominant particle size              | -         | approx. 70 nm              | 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.

## Applications

- Exterior Paints & Coatings
- Polymer Dispersions for Primers
- Ready-to-use dispersion-based Renders & Plaster

## Application details

Its extremely fine particle size allows to penetrate into porous surfaces very efficiently, thereby strengthening the substrate. Surfaces treated with exhibit improved tensile adhesion strength and scrub resistance. The unique polymer composition of the dispersion results in polymer films that are highly hydrophobic and oil-repellent. Surfaces treated with are therefore easier to clean and have improved mechanical properties.

can be used either in construction applications or paints and coatings.

In **construction applications**, is particularly suitable for producing impregnation agents and the surface treatment of mineral substrates, e.g. concrete, decorative self-leveling flooring compounds and smoothing compounds for interior use, e.g. stucco veneziano, natural stone and gypsum plasters. The dispersion is also suitable for treating mineral plasters, roofing tiles, wood, fibers and nonwovens.

Furthermore, can be used as a primer for treating substrates before application of screeds and floor leveling compounds.

In **paints and coatings**, can be used as a co-binder for high-performance wall paints for interior and exterior use, as well as in ready-to-use dispersion-based plasters. The blocking behavior and dirt pick-up resistance (easy-to-clean behavior) in interiors are improved with . Paints formulated with show reduced snail trails (emulsifier leaching) on facades. can also be used as a film-forming dispersion in colored stone plasters.

### Processing:

exhibits excellent shear stability and is highly compatible with other polymer dispersions such as styrene-acrylate, vinyl acetate and PU dispersions and silicone and wax emulsions.

To achieve the desired effects, 10-20% , based on total binder content, is typically added as a co-binder.

If the product is used to impregnate porous substrates, we recommend diluting the dispersion to a solids content of 5-30%, depending on how absorbent the substrate is. The product can be applied by brushing, rolling, spraying or wiping. For best results, apply the product in two coats using a short-pile velour mop. The concentration and amount of the formulation used must be chosen to suit the absorbency of the substrate such that there is no continuous polymer film on the surface.

is produced without the addition of coalescing agents, organic solvents, plasticizers or alkylphenol ethoxylate (APEO)-containing materials. For processing at below 17°C, the use of film-forming agents is recommended.

### 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 containers of 1 t capacity and road tankers. Please contact your WACKER customer representative for further possible packaging units.

### Storage

When the dispersion is stored in tanks, proper storage conditions must be maintained. The product has a shelf life of 6 months starting from the date of receipt if stored in the original, unopened containers at temperatures between 5 and 30 °C. Any longer periods for the maximum storage period that may be described in the Certificate of Analysis which accompanies each shipment of the product, take preference over this suggestion in which case the time period stated in the Certificate of Analysis shall be solely authoritative. Iron or galvanized iron containers and equipment are not recommended. 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 be formed during storage or transportation. A filtration process is thus recommended prior to utilization of the product.

### Preservation for Transport, Storage and further Processing

The product 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. Measures should also be taken to ensure cleanliness of the tanks and pipes. In unstirred tanks, a layer of preservative-containing water should be sprayed onto the surface of the dispersion to prevent the formation of unwanted skin and possible attack by microorganisms. The thickness of this water layer should be < 5 mm for low viscosity dispersions and up to 10–20 mm for high viscosity products. Proper procedures – periodic tank cleaning and sanitization – must be set up in order to prevent microbial attack. Contact your biocide representative/supplier for further plant hygiene recommendations. Measures should be taken to ensure that only clean air enters the tank when the dispersion is removed. 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. They are available on request from WACKER sales offices or may be printed via WACKER web site [www.wacker.com](http://www.wacker.com).

## QR Code PRIMIS® SAF 9800



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

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