

PRIMIS® SAF 9000

Innovative Oil-Resistant and Hydrophobic Dispersion for Wall Applications

PRIMIS® is the new range of specially designed polymer dispersions offered by WACKER that stand out thanks to their excellent performance and innovation potential. The latest addition to this state-of-the-art portfolio is PRIMIS® SAF 9000: a highly resistant, extremely fine-particulate polymer dispersion that combines both oil resistance and hydrophobicity, thus opening up a spectrum of innovative applications.

Taking Acrylic-Based Additives One Step Further

The special oil-resistant and hydrophobic polymer composition makes PRIMIS® SAF 9000 a versatile additive in interior and exterior paints. It is the perfect choice for use with VINNAPAS® VAE binders but is also suitable for various commercially available acrylic-based products.

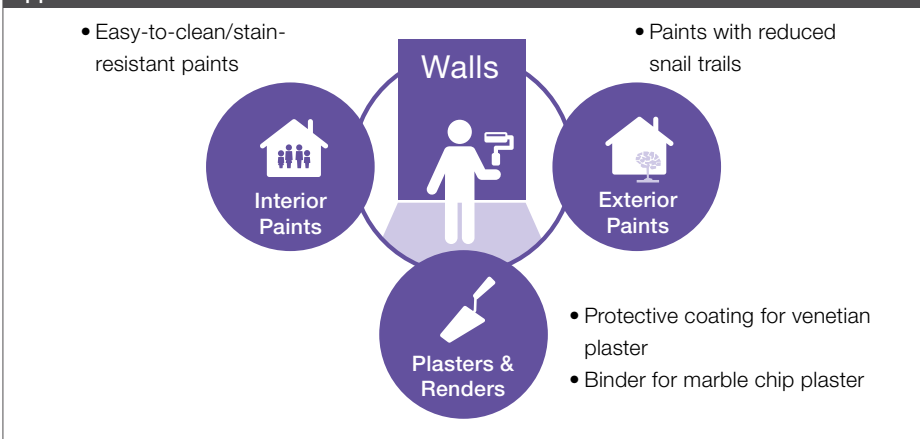
Product Data of PRIMIS® SAF 9000

Polymer composition	Styrene acrylic
Minimum film-forming temperature (MFFT)	13 °C
T _g	21 °C
Solid content	42 ± 1%
Particle size	<0.1 µm
Viscosity	275 ± 225
pH	6.5–7.5

Use of PRIMIS® SAF 9000 in Interior Paints

In interior paints, PRIMIS® SAF 9000 is used as a co-binder with 10–20% share of the total binder. As main binders, we highly recommend VINNAPAS® VAE grades such as VINNAPAS® EAF 380 and EF 3777. Alternatively, other commercially available grades can be used, even if based on other technologies.

Application Areas of PRIMIS® SAF 9000 on Walls



Advantages in Interior Paints

Using PRIMIS® SAF 9000 as a co-binder increases blocking resistance, improves mechanical properties and – above all – greatly enhances stain resistance. Many different types of stains, from coffee and red wine to pencils, crayons and highlighters, can be easily wiped off with a cloth, using a household dishwashing detergent diluted with water. Depending on the main binder and the co-binder dosage, easy-to-clean paints, which enable the complete removal of stains, can be formulated.

Comparison of Easy-to-Clean Effect of Interior Paints



Removing text marker. Left: paint formulation without PRIMIS® SAF 9000.

Right: paint formulation with PRIMIS® SAF 9000.

Removing lipstick. Left: paint formulation without PRIMIS® SAF 9000.

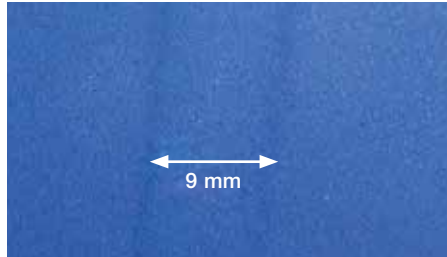
Right: paint formulation with PRIMIS® SAF 9000.

Use of PRIMIS® SAF 9000 in Exterior Paints

In exterior paints, PRIMIS® SAF 9000 is also used as a co-binder with 10–20% share of the total binder. As main binders, we highly recommend VINNAPAS® VAE grades such as VINNAPAS® EAF 380 and VINNAPAS® CEZ 3031. Alternatively, other commercially available grades can be used, even if based on other technologies.

Advantages in Exterior Paints

In exterior wall paints, PRIMIS® SAF 9000 prevents leaching of water-soluble additives, like emulsifiers in the paint, in the paint, and thus minimizes so-called "snail trails".



Picture of typical snail trail

Use of PRIMIS® SAF 9000 as a Protective Coating for Plasters

PRIMIS® SAF 9000 can be used as a protective coating and finish for wall plasters such as venetian plaster. Here, PRIMIS® SAF 9000 is applied as an impregnation agent in two steps on top of the plaster.

Advantages as Protective Coating for Plasters

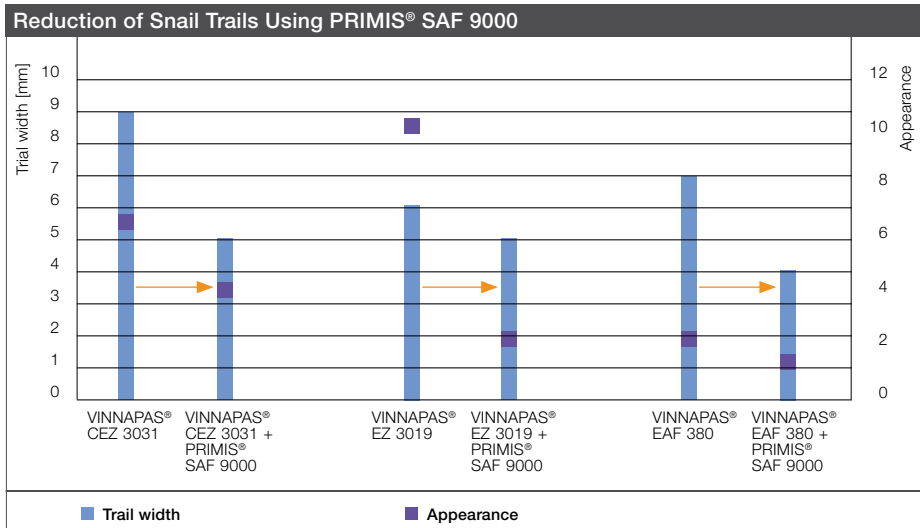
PRIMIS® SAF 9000 protects the surface from weather degradation and ensures a perfect appearance after rain, heat, freeze and thaw conditions. It improves resistance to both hydrophilic and organic stains, dries fast and is easy and safe to apply, even for non-professionals.

Use of PRIMIS® SAF 9000 in Marble Chip Plasters

In marble chip plasters, PRIMIS® SAF 9000 is used as the sole binder and can be used as an alternative to pure acrylics.

Advantages in Marble Chip Plasters

PRIMIS® SAF 9000 has a positive impact on the scratch resistance and appearance of final plasters even after water treatment. The undesired whitening effect after water treatment is greatly reduced.



The graph shows the effect of PRIMIS® SAF 9000 as a co-binder in different formulations (proportion of binders: 80/20; facade paint with 4% blue pigment) after 14 days' curing. The appearance is assessed on a scale from 0 to 12. The lower the value the better the appearance. As for measuring the snail-trail width, the lower the number the better.

At a Glance: Benefits of PRIMIS® SAF 9000

- Improved stain resistance in easy-to-clean interior paints
- Enhanced blocking resistance in interior paints
- Reduced leaching in exterior paints
- Increased weather resistance as a protective coating for venetian plaster
- Improved scratch resistance for marble chip plasters
- Reduced whitening of marble chip plasters after water treatment

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