

# Acronal® P 5033

Polymer Dispersions for Construction



## Chemical nature

Redispersible, crosslinkable polymer powder based on an aqueous, plasticizer-free, anionic copolymer dispersion of an acrylic acid ester and styrene

## Technical data

Solids content	> 98 %
pH	approx. 6.5 – 8
Bulk density	approx. 500 kg/m <sup>3</sup>
T <sub>g</sub>	approx. – 15 °C

The exact specifications can be found in the specification data sheet.

## Areas of application

Acronal P 5033 is used primarily in the formulation of highly flexible cementitious one-component sealing slurries for waterproofing being applied in- and outdoor under tiles. The polymer film crosslinks only at alkaline pH, resulting in excellent crack bridging properties of the waterproofing membrane, even at temperatures down to – 10 °C. The polymer powder also significantly improves bond strength properties beneath tiles.

Acronal P 5033 based mineral sealing slurries ensure outstanding and smooth running workability properties, especially in combination with Rheovis® HS 1980.

## Processing

Acronal P 5033 does not cause any ammonia release when combined with strongly alkaline mineral binders such as cement, lime etc. The polymer powder is characterized by outstanding workability properties even in formulations with high polymer contents. The use of Acronal P 5033 allows the formulation of one-component cementitious waterproofing membranes with unique flexibility and adhesion also on critical substrates. The recommended dosage rate is 25 – 30 %. To ensure complete redispersibility, the amount of mixing water should not be less than the polymer content) (W/P ≥ 1). To control the density of the fresh slurry we recommend to add 0.4 % Vinapoi® DF 9010 F to the dry mix.

By the addition of 0.1 – 0.3 % Rheovis® HS 1980 (HASE Thickener) is possible to achieve sprayable up to non-sagging workability properties without interference of the smooth running workability properties.

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