

# Construction

## Technical Data Sheet

# Acronal<sup>®</sup> P 5033



### Chemical Nature

Re-dispersible, cross-linking polymer powder based on an aqueous, plasticizer-free, APEO free, anionic copolymer dispersion of acrylic acid ester and styrene.

### Properties

#### Product specifications

Solids content, pH (30% solution)	%	> 98% ca. 6.5 - 8
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#### Other properties

Appearance		brownish
Form		powder, free flowing
Bulk density,	kg/m <sup>3</sup>	ca. 500
Tg	°C	ca. -15

### Applications

#### Area of application

Acronal<sup>®</sup> P 5033 is used to improve and increase the flexibility, flexural strength, adhesion, crack bridging and water resistance of one-component, drymix construction products based on hydraulic cements. Acronal<sup>®</sup> P 5033 does not have a strong plasticizing effect; it is APEO and ammonia free.

Acronal<sup>®</sup> P 5033 is used in one-component, drymix, flexible, waterproof sealing slurries and waterproof membranes for interior and exterior applications. Workability and pumpability of formulations with Acronal<sup>®</sup> P 5033 is excellent. The polymer film cross-links only at alkaline pH, resulting in excellent crack bridging properties, even at low temperatures.

#### Processing

Typical dosage rate in high flexibility waterproofing applications is 20 to 30% by weight of cement. To ensure complete redispersion the amount of mixing water should not less than the amount of polymer, by weight.

Dry mortars that contain Acronal<sup>®</sup> P 5033 can be dry mixed with typical mixing equipment. Because the product is thermoplastic care must be taken to ensure that there is not excessive heat exposure.

Acronal<sup>®</sup> P 5033 is compatible with typical water reducers, rheology modifiers and defoamers such as Melment<sup>®</sup>, Melflux<sup>®</sup>, Starvis<sup>®</sup> and Vinapor<sup>®</sup>.

Construction products containing Acronal<sup>®</sup> P 5033 may discolor on exposure to sunlight, color stability should be evaluated.

### Safety

#### General

The usual precautions when handling chemicals must be observed. This includes compliance with Federal, State and Local health and safety regulations, ventilation, protective clothing and goggles.

#### Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Acronal<sup>®</sup> P 5033.

## Storage

Acronal® P 5033 has a shelf life of 6 months from delivery date when stored cool, dry, in the original packaging and pallets are not double stacked. Heat, moisture and pressure may cause lumps to form.

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