

# Construction

## Technical Data Sheet

# Acronal<sup>®</sup> S 695 P



### Chemical Nature

Re-dispersible styrene-acrylate copolymer powder for the modification of hydraulic binders

### Properties

#### Typical Properties

Solids content	%	~ 99.0
pH (30% in water)		~ 7.5

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

#### Other properties

Appearance		slightly yellowish powder
Bulk density	kg/m <sup>3</sup>	ca. 470 – 570
Film-forming temperature	°C	ca. 10 min.

The information presented here on the properties of the product and the films that it forms is only intended as a guide to processing. It does not constitute the agreed product quality or a guarantee of certain properties. These properties are not monitored regularly as part of our quality assurance procedures.

### Applications

#### Features

Acronal<sup>®</sup> S 695 P is a redispersible copolymer powder based on an acrylic ester and styrene. It does not contain any plasticizers or film-forming agents. It is easy to disperse in water by vigorous stirring. Acronal<sup>®</sup> S 695 P imparts a neutral effect on mortar mix rheology.

#### Areas of application

Acronal<sup>®</sup> S 695 P is used to modify hydraulic binders such as cement, lime and gypsum. It is mainly used as a polymer additive for dry mortars, mineral-based renders and building adhesives, such as thin-bed adhesives for ceramic tiles and for composite heat insulation systems.

Adding Acronal<sup>®</sup> S 695 P to mortars increases their strength, abrasion resistance and adhesion. This also provides a large increase in flexibility, and the highest standards can be met by adding Acronal<sup>®</sup> S 695 P at a rate of 5 - 20% w/w, expressed as a proportion of the hydraulic binder. The excellent flexibility that can be obtained is the result of the high proportion of polymer, which is the result of a large reduction in the additive content. The rheology of products formulated with Acronal<sup>®</sup> S 695 P can be adjusted to suit individual applications by adding the usual thixotropes such as micronized silica or cellulose derivatives.

#### Processing

Dry mortars that contain Acronal<sup>®</sup> S 695 P can be mixed with conventional equipment but, because this product is thermoplastic, care must be taken to ensure that the heat generated by shear when the dry components are mixed is not excessive.

Acronal<sup>®</sup> S 695 P swells when it is solvated in alkaline systems that incorporate hydraulic binders. It quickly takes effect when water is added, and it does not need to be left for a long time to ripen.

Customers have to carry out their own trials when developing and processing products based on Acronal® S 695 P. The compatibility of Acronal® S 695 P with other ingredients of formulations, mixing processes, and its adhesion on different substrates, etc., are affected by a variety of factors which are too numerous for us to take into account in our own trials. This also includes testing the stability of its viscosity when it is stored at temperatures of approx. 50 °C.

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## Safety

### General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

### Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet Acronal® S 695 P.

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## Storage

Acronal® S 695 P has a shelf life of twelve months from delivery date, provided it is stored in a cool place and is protected from freezing. Technical information regarding the storage of BASF polymer dispersion products is available on request.

The contents of bags should be used up as quickly as possible after they have been opened, as otherwise contact with moisture can cause lumps to form. Because Acronal® S 695 P is thermoplastic; care must be taken to ensure that it is not subjected to high temperatures or high pressure, because this can also cause lumps to form. It has a negligible tendency to form lumps when it has been mixed into dry mortars.

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## Important

The descriptions, designs, and data contained herein are presented for your guidance only. Because there are many factors under your control which may affect processing or application/use it is necessary for you to make appropriate tests to determine whether the product is suitable for your particular purpose prior to use. **NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, OR DATA MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, DATA OR DESIGNS PROVIDED BE PRESUMED TO BE A PART OF OUR TERMS AND CONDITIONS OF SALE.** Further, you expressly understand and agree that the descriptions, designs, and data furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for same or results obtained from use thereof, all such being given to you and accepted by you at your risk.

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