

Technical Information

Acronal[®] S 400 F ap

Polymer Dispersions for Construction

Chemical Nature

Acronal[®] S 400 F ap is an anionic aqueous dispersion based on acrylate ester and styrene.

Acronal[®] S 400 F ap is formaldehyde free product.

Technical Data

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|---|--------------------------------|
| Solids content | 56 - 58 % |
| pH value | 7.0 – 8.5 |
| Viscosity RVT, 23°C, sp3/100 rpm | 300 - 750 mPa·s |
| Density | approx. 1.04 g/cm ³ |
| Tg | approx. - 8°C |
| MFFT | <1°C |

Application Areas

Acronal[®] S 400 F ap has a varied range of uses. Areas of application include for example:

- Flexible waterproofing membrane
- Rigid and semi-flexible waterproofing slurries and mortar
- High-flexibility tile adhesives
- Repair mortars
- Industrial floor screeds and fine screeds
- Anticorrosion protection
- Basecoats
- Additives for hydraulic binder systems and others

Acronal[®] S 400 F ap provides excellent flexibility in cementitious waterproofing membranes formulation. It has an outstanding compatibility with various cements. Compounds modified with Acronal[®] S 400 F ap have a very fluid consistency allowing the amount of water to be strongly reduced without changing the properties of the final product. An improved water resistance and higher resistance to carbon dioxide diffusion are observed in the finish products containing Acronal[®] S 400 F ap.

Processing

It is usually not necessary to add any plasticizer due to low film-forming and glass transition temperatures of Acronal[®] S 400 F ap.

To avoid air voids content increase during processing of Acronal[®] S 400 F ap, it is recommended to add defoamer i.e. 0.3~0.5% FoamStar PB 2706 or Foamaster MO NXZ.

If a sag-resistant consistency is required for the processing rheology of the slurry, polyurethane-based thickeners like, for example, Theovis PU 1191 is proposed to be added.

Acronal[®] S 400 F ap has a shelf life of six months at 10~30°C, provided due attention is paid to the hygiene of tanks and storage facilities.

It is strongly recommended to carry out your own trials when developing and processing products contains Acronal[®] S 400 F ap. This also includes testing the storage stability of customer's finish product.

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