

# Acronal<sup>®</sup> S 400 ap

® = Registered trademark of  
BASF Aktiengesellschaft

**Aqueous polymer dispersion used in for flexible, hydraulic bedding mortars and flexible, waterproof, two-component cement-bonding mortars.**

**Chemical nature** Aqueous dispersion of acrylate / styrene copolymer.

## Properties :

**Product specifications**

Colour & appearance	: White viscous liquid
Solids content (140°C/30minutes)	: 56 - 58 %
Viscosity at 23°C (Brookefield RVT DV - I, Spindle 3 / 100 rpm)	: 300 - 750 mPaS
pH ( as such )	: 7.0 – 8.5

**Other properties**

Density	: 1.04 g/cm <sup>3</sup>
Dispersion type	: Anionic
Plasticizer content	: None
Thinnability with water	: Freely miscible
Resistance to frost	: Not resistant
Minimum film forming temperature	: <1°C
Tensile Stress of polymer film at break	: > 2500

**Compatibility** Acronal S 400 ap is miscible with most non-ionic and anionic dispersions.

Acronal S 400 ap has good compatibility with ground quartz, fine sane, microdolomite and chalk. The compatibility is improved with wetting and dispersing agents.

## **Applications :**

Acronal S 400 ap is used in for flexible, hydraulic bedding mortars and flexible, waterproof, two-component cement-bonding mortars.

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## **Processing :**

Acronal S 400 ap is generally compatible with various types of thickeners ( cellulose ethers, associative thickeners, Vinylpyrrolidone copolymer thickeners etc).A point to note in formulating products based on Acronal S 400 ap is that conventional thickeners cause cement mixes to stiffen excessively and disturb setting.

Commercially available antifoams are suitable for suppressing foam. The amount required must be determined in trials.

We recommend addition of in-can preservatives to protect materials based on Acronal S 400 ap from microbial attack. The suitability of such additives must be verified and monitored in trials.

Manufacturers must carry out their own trials for developing products based on Acronal S 400 ap as, in manufacture and use, the compatibility of their components and final performance is affected by a large number of factors, which we cannot cover exhaustively in our own trials.

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## **Storage**

Provided that Acronal S 400 ap is stored in tightly closed containers or tanks and not kept under direct sunlight, it has a shelf life of approximately 6 months.

Acronal S 400 ap should not be allowed to come into contact with any unprotected metals except stainless steel during storage and processing.

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## **Safety**

Attention should be paid to the normal precautions for handling chemicals and to the measures prescribed in the local health regulations. The place of work must be well ventilated, skin care measures should be adopted and safety goggles should be worn.

According to the data available at our disposal, Acronal S 400 ap is not a hazardous product as per guidelines for Classification, Packaging and Labelling of Dangerous Substances.

Acronal S 400 ap does not pose any risk to health when it is used for the purpose for which it is intended and principles of sound industrial practice are observed.

The composition of Acronal S 400 ap conforms to the German recommendation on plastics dispersions for food-contact applications viz., Empfehlung XIV Kunststoffdispersionen, Stand 15.08.86 ( 178. Mitteilung, Bundesgesundheitsblatt 31,364 [1988] ).

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## Note

The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation's are observed.

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