

Acronal® 4924

Chemical Nature

Aqueous acrylate copolymer dispersion for mortar modification – non-APEO, non-ammonia.

Properties

Typical PropertiesSolids content, weight % ~ 47 pH ~ 9.5

Viscosity at ~ 73 °F cps ~ 40

(Brookfield RV, Spindle #4, at 50 rpm)

Other properties of

the dispersion Dispersion type

lbs/gal ~ 8.8 Anionic

Compatibility with Mortar/cement Freeze-Thaw Stability (0°F or -18°C)

Excellent 4-5 cycles

Properties of the film

Appearance Clear, transparent Surface Non-tacky

Glass transition temperature °C ~ 11

T_g (DSC)

Density

Application

Fields of application

Acronal 4924 is recommended for use in mortar based applications (e.g., repair, patching and adhesives) where ammonia odor is a concern. Acronal 4924 latex tested "as-is" or in water diluted admixtures yields 4-5 cycles of freeze-thaw resistance and rapid thaw character. Compositions formulated with Acronal 4924 show excellent mortar compatibility and workability as well as good pot life and rapid set time. Well formulated polymer modified mortars including Acronal 4924 maintain homogeneous consistency in the wet state and crack free appearance with good compressive strength in the hardened state.

Mortar compositions modified with Acronal 4924 exhibit better adhesion, flexural and tensile strengths, and show increased resistance to water permeability relative to unmodified mortars.

Processing

If additional antifoam is required in admixtures or mortar compositions employing Acronal 4924, it is advisable to carry out trials with FoamStar® ED 2522, Foamaster® MO NXZ NC or the like.

In order to achieve desired shelf-life stability on prolonged storage, it is advisable to add a small proportion of suitable preservative (biocide) to the formulations containing Acronal 4924. The suitability of the preservative must be determined by prior trials and checked at regular intervals.

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.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Acronal 4924.

^{*} These typical values should not be interpreted as specifications.

Please refer to our "Handling and Storage of Polymer Dispersions" brochure

Important

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