

Acronal[®] 4835

Chemical Nature

Aqueous styrene-acrylate copolymer dispersion for the manufacture of both premium and highly filled ceramic tile adhesives.

Properties

Typical Properties

Solids content	%	~ 50.0
pH		~ 9.0
Viscosity at 73 °F (Brookfield RV, Spindle #2, at 20 rpm)	cps	~ 1200

Other properties of the dispersion

Density at 23 °C	lbs/gal g/cm ³	8.60 1.03
Type of dispersion		anionic
Odor		Low
Neutralization		No ammonia added
Freeze-thaw stability	0 °F	not stable

Properties of the film

Appearance		Clear/transparent
Surface		Non-tacky
Glass transition temperature (DSC)	°C	ca. 21
Mechanical strength*		
Tensile strength	psi	ca. 1300
Elongation at break at 23 °C	%	ca. 350

*The above values shouldn't be taken as specification

Applications

Features

Acronal 4835 is an easy-to-use, low odor, APEO-free, functionalized copolymer emulsion recommended for the production of premium ceramic tile mastic adhesives having superior ANSI 136.1 Wet Type 1 water resistance and extended working time. Acronal 4835 can also be utilized in formulations with high filler loadings while still meeting application standards.

Processing

Although Acronal 4835 is protected from attack by microorganisms, preservatives must be added to the produced formulations in order to ensure that their quality remains unimpaired over long storage periods. Prior experiment is essential for checking their compatibility and efficiency.

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 4835.

Storage

Please refer to the "Handling and Storage of Polymer Dispersions" brochure.

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