

# Acronal® 4848

## Chemical Nature

## Acrylic Dispersion for High Performance Elastomeric Roof Coatings

### Properties

#### Typical Properties

Solids content	%	54.0 – 56.0
pH		7.5 – 9.5
Viscosity at 73 °F (Brookfield RV, Spindle #2, at 100 rpm)	mPa s	100 - 800

#### Other properties

Density at 23 °C	lbs/gal	8.50
Type of dispersion		anionic
Sensitivity to freezing	°F	protect from freezing

\* The above values shouldn't be taken as specification

### Applications

#### Features

While traditional elastomeric acrylic roof coatings fulfil many of the desired properties for roof coatings, they lack the outstanding exterior durability required for coatings applied in areas prone to hail, excessive dirt pick-up, and where high foot traffic is encountered. Roof coatings applied in such areas not only must meet the challenge of strong durability, with a tough coating surface, but also must meet all of the other attributes for elastomeric coatings, such as low temperature flexibility, good adhesion to roofing substrates and above all must have excellent retention of elastomeric properties upon weathering.

Acronal 4848 polymer is designed via a unique selection and combination of key monomers, along with an innovative self-crosslinking chemistry to allow the formulator to design high performance, durable coatings for challenging weather conditions. High performance roof coatings with Acronal 4848 can be designed to have the following features:

- Strong mechanical properties with a balance of high tensile and high elongation
- Excellent retention of mechanical properties upon extended weathering
- Excellent durability and high solar reflectivity for reduced roof temperatures & energy efficiency
- Enhanced resistance to hail relative to conventional elastomeric polymers
- Good adhesion to many roofing substrates
- Good dirt pick-up resistance
- Excellent low temperature flexibility
- Compatible with BASF's Quick-Trigger Technology to achieve Early Rain Resistance

Acronal 4848 distinguishes itself from other polymers targeted for similar applications, in that, it has the unique ability to retain its mechanical and elastomeric properties upon extended weathering, while other polymers lose a significant portion of their elongation when weathered only for a very short period of time. Even with its superior retention of elasticity upon weathering, Acronal 4848 offers comparable dirt pick-up resistance upon weathering, relative to other polymers in its class. Further, early rain resistance with high performance coatings formulated

with Acronal 4848 can readily be achieved by using appropriate amounts of BASF's Quick-Trigger 4333 additive.

*For areas where permanent water loading is anticipated or the roof sloped is  $\geq 2^\circ$ , roof coatings containing Acronal dispersions are not recommended*

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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.

### Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Acronal 4848.

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## Storage

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

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