



We create chemistry

# ACRONAL<sup>®</sup> 3633 na

High Performing Pressure  
Sensitive Adhesive for Luxury  
Vinyl Tile and Plank



# ACRONAL 3633 na

## High Performing Pressure Sensitive Adhesive for Luxury Vinyl Tile and Plank

ACRONAL 3633 na is an aqueous all-acrylic pressure sensitive dispersion designed for adhesives used to install luxury vinyl tile and plank. Adhesives manufactured with ACRONAL 3633 na exhibit excellent peel and shear properties under high moisture and alkali conditions. Flooring adhesives formulated with ACRONAL 3633 na also feature quick drying time, contributing to faster installation and reduced labor cost.

### Jobsite Challenges

- Addressing the moisture content of slabs
- Meeting compressed installation schedules
- Jobsite preparation
- Odor control

### Product Features

- Excellent water and alkali resistance
- Great peel and shear under high alkali and moisture conditions
- Fast drying for efficient installation
- Tackifiable without sacrificing shear
- Low-VOC and non-APEO

### Properties

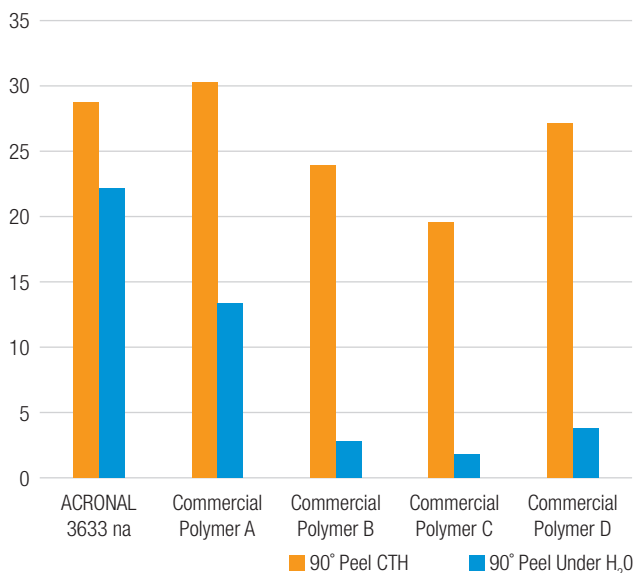
Solid content, weight %	ca. 60
pH	ca. 7.5
Viscosity, mPa-s	ca. 500
Glass transition temperature, °C	ca. -35
Tg (DSC) bulk density, g/cm <sup>3</sup>	ca. 1.04
Dispersion type	Anionic
Freeze/thaw stability	Not stable

## Moisture and Alkaline Resistance

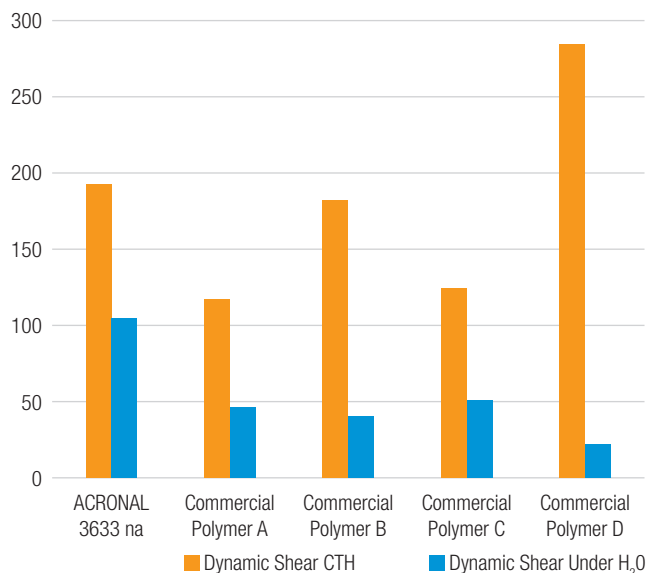
ACRONAL 3633 na has outstanding moisture and alkaline resistance. To demonstrate this, ACRONAL 3633 na was compared to four other commercial polymers in head-to-head testing. A concrete substrate with vinyl-backed carpet tiles adhered on top was set into a water bath, allowing alkali moisture to push to the surface of the concrete and into the polymer. After 14 days the samples were evaluated for 90-degree peel and dynamic shear. These results were compared to samples not immersed in water. ACRONAL 3633 na retained the greatest percentage of both peel and shear properties after the 14-day test.

This performance demonstrates ACRONAL 3633 na's exceptional ability to withstand very high relative humidity and high alkali conditions.

### Peel Comparison of Effective Alkaline Exposure



### Shear Comparison of Effective Alkaline Exposure

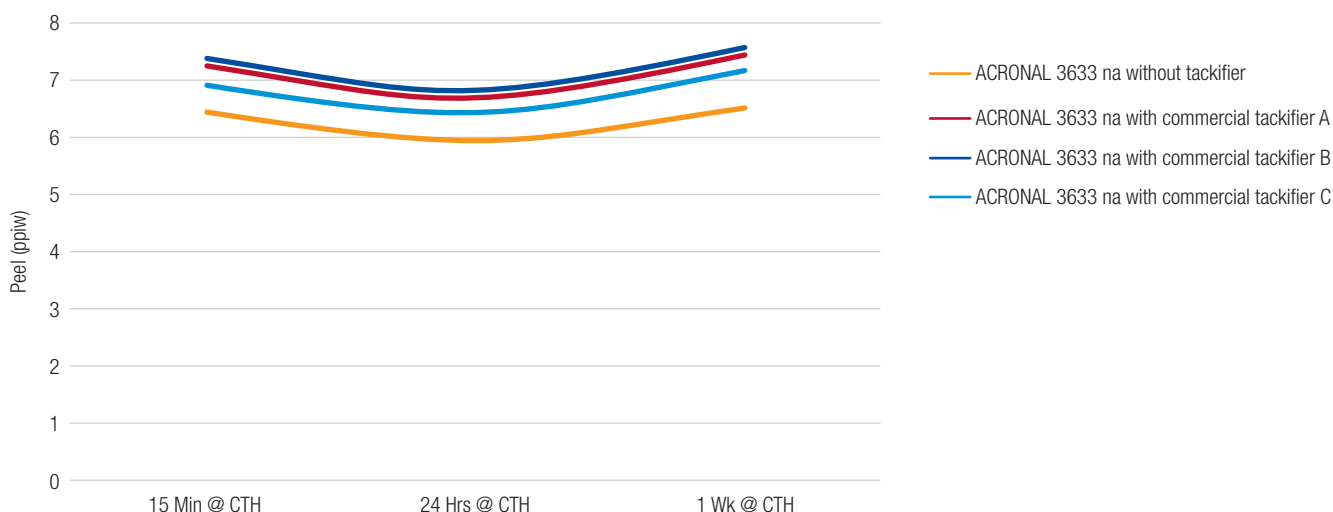


# ACRONAL 3633 na

## Tackification without Sacrificing Performance

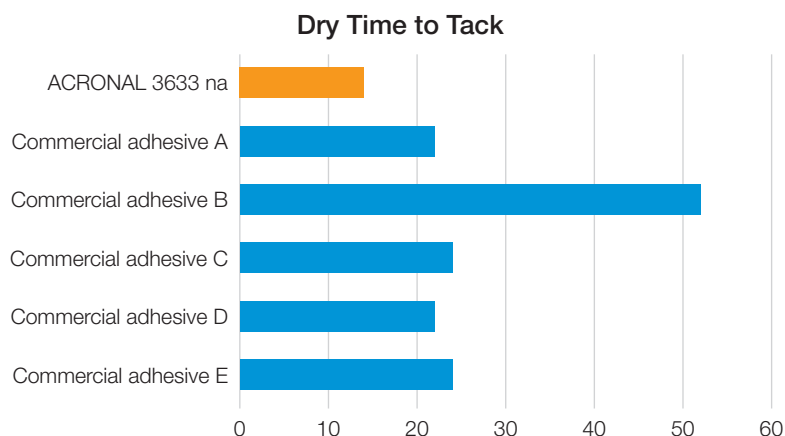
Flooring adhesive formulations containing ACRONAL 3633 na can be enhanced with tackifiers, increasing peel properties without sacrificing shear. This balance gives formulators additional tools to meet formulation challenges.

### Tackification of ACRONAL 3633 na



## Fast Adhesive Dry Time

Flooring adhesives formulated with ACRONAL 3633 na exhibit impressive dry times for pressure sensitive adhesive installations. In a comparison to five commercial flooring adhesives, the formulation based on ACRONAL 3633 na dried to be tacky without adhesive transfer 36% faster than the closest performing commercial adhesive in the study. This fast drying time provided by ACRONAL 3633 na enables quicker, more efficient installation with reduced labor cost.



## 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.

### Material Safety Data Sheet

Please refer to the most current version of the Material Safety Data Sheet that can be found on-line at [www.basf.us/sds](http://www.basf.us/sds)

### Storage and Handling Recommendations

ACRONAL 3633 na has a shelf life of six months from delivery date, provided it is stored in accordance with the "Handling and Storage of polymer dispersions" brochure. Technical information regarding the storage of BASF polymer dispersion products is available upon request.

## About the Dispersions & Resins Business

The Dispersions & Resins business of BASF develops, produces, and markets a range of high-quality resins, additives, colorants, and polymer dispersions worldwide. These raw materials are used in formulations for coatings and paints, printing and packaging products, construction coatings, adhesives, cellulose and composites, and paper manufacturing. With a comprehensive product portfolio and extensive knowledge of the industries we serve, our customers benefit from innovative and sustainable solutions to help them advance their formulations through chemistry. For further information about the Dispersions & Resins business in North America, please visit <http://www.basf.us/dpsolutions>.

## About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. The more than 115,000 employees in the BASF Group work on contributing to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio is organized into six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of more than €60 billion in 2017. BASF shares are traded on the stock exchanges in Frankfurt (BAS), London (BFA) and Zurich (BAS). Further information at [www.basf.com](http://www.basf.com).

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