



2035 W. McDowell Rd. | Phoenix, AZ 85009

Technical Data Sheet Acrylic Coating 230 W

PRODUCT DESCRIPTION AND USE

Acrylic Coating 230 W is a self-crosslinking, acrylic emulsion, waterborne acrylic coating and sealer used in a variety of decorative concrete applications. The latex can be used in clear formulations for “wet look” concrete coatings or pigmented formulations for garage floor coatings. It provides excellent chemical, hot tire pick-up, and weathering resistance including excellent UV and non-yellowing characteristics. 230 W also has good adhesion, dirt pick-up and blush resistance. It is available as a clear coating and sealer, for those seeking color we have waterborne pigment packs that can be used to tint the acrylic to any desired color. This material dries very quickly and is relatively high solids for a single component acrylic emulsion.

Smoother Top Coats Without The Extra Cost.

This product was specifically engineered to fill in and even out the high and low points in a full broadcast chip and flake floor system to produce a smoother top coat. To be applied after scraping and recovering the excess chips and flakes, and will help produce a much smoother overall finish when being top coated with polyaspartic. Specifically designed to be coated over by our Polyaspartic 485S, our 85% solids polyaspartic resin. You may also top coat over 230 W with solventborne polyurethane. When you want a smooth top coat, Acrylic Coating 230 W, will enable you to meet this need without requiring a 2nd, more expensive, top coat of polyaspartic.

Typical Uses:

- Exterior and interior decorative concrete
- Clear wet look garage floor coating
- Sealing concrete, pavers, bricks and stones
- Sealing chips and flakes for a smoother finish top coat

Features:

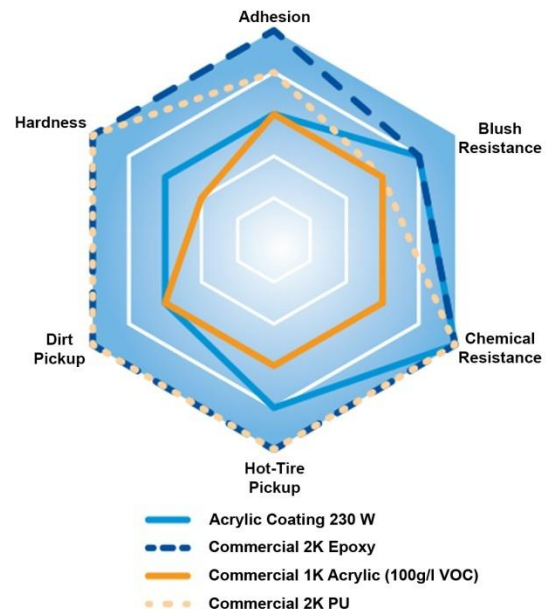
- Good dirt resistance
- Good adhesion to concrete
- Excellent chemical resistance
- Excellent hot-tire pickup resistance
- Excellent early resistance to water blushing

Limitations:

- **Minimum application temperature 50°F (10°C)**
- Do not allow material to freeze in bucket, acrylic emulsion will de-stabilize
- **Must be completely dry**, no residual water or tackiness present, when applying solventborne chemistry over this material
- Not recommended for high traffic areas

Product Properties: @78°F (26°C)

- Tack Free 1-2 hours
- Recoat with 230 W 30-60 minutes
- Foot traffic 24 hours
- Heavy traffic 5 days



PHYSICAL PROPERTIES @78°F (26°C)

Solids Content, by Weight (clear)	~ 33%
Solids Content, by Volume (volume)	~ 32%
Volatile Organic Compounds (VOCs)	< 50 g/l
Appearance (unpigmented/clear)	Translucent / Milky Emulsion
Recommended Application Thickness	5-10 mills wet or 150-300 sq.ft./gallon
Tack Free Time	1-2 hours
100% Cure	5 days
Viscosity (cps)	~ 400 cps
Shelf Life	12 months in unopened containers (do not store below 45°F)
Koenigs Hardness (swings)	24
Gloss & Retention	
20°	55.6
60°	82.0
500 Hours in QUV (20°)	76.44% (% retention of gloss)
500 Hours in QUV (60°)	97.68% (% retention of gloss)
1000 Hours in QUV (20°)	51.62% (% retention of gloss)
1000 Hours in QUV (60°)	89.27% (% retention of gloss)
Adhesion or Bond Strength Pull Off Test with Defelsko Positest AT-A, 20mm dolly	Chip Layer Delamination, average of 3 pulls ~ 300 psi (ASTM D 4541)
X-Cut Adhesion, dry and wet (ASTM D3359)	10 – No Visible Delamination (1 hr wet) 10 – No Visible Delamination (dry)
Chemical Resistance:	1 Hour Spot Test
Transmission Fluid	Recommend – Little or no Visible Damage
Brake Fluid	Recommend – Little or no Visible Damage
Motor Oil	Recommend – Little or no Visible Damage
28% Ammonia in Water	Recommend – Little or no Visible Damage
Gasoline	Recommend – Little or no Visible Damage
70% IPA	Recommend – Little or no Visible Damage
Windex	Recommend – Little or no Visible Damage
Formula 409	Recommend – Little or no Visible Damage
Vinegar	Recommend – Little or no Visible Damage
Blush Resistance (2 hour cure, 77°F and 50% RH)	
16 Hour water immersion	No effect on film
Hot Tire Resistance, Bridgestone radial tire pieces heated in boiling water, pressed on coating at 50PSI for 45 minutes.	No effect on film

Handling Recommendations:

Gently mix entire bucket before use. See SDS. Wear protective gloves and eye protection and avoid contact with skin.

Application Instructions: Read all instructions carefully before starting

The concrete surface must be free of all contaminants, dirt, grease, oil, fats, etc... We recommend all concrete surfaces be prepared using mechanical abrasion such as grinding or shot blasting. Pressure washing with a cleaner degreaser and buffer is an alternative prep method. Acrylic Coating 230 W can be applied to damp concrete, but not a wet or pooling surface. You may test this by laying your hand flat on the surface of the floor. If water is transferred to your hand, the floor is considered too wet.

Appearance – Acrylic Coating 230 W is milky white in appearance when wet, **but dries clear.**

Solid Color Garage Floor Coating – Mix-in desired pigment packs using a mechanical drill mixer with mixing head attachment until a uniform consistency is achieved. Take extra care not to mix in air which will create bubbles. Cut-in and roll out the floor as normal. Wait roughly 60 minutes between coats, or

until tack free depending on your local temperature and humidity. 2-3 Coats should suffice for a single color garage floor coating.

Sealing Chips and Flakes (full broadcast only) – Recommended for application the same day as scraping and recovering chips on an epoxy floor that has already cured overnight. If applying to a floor with a solventborne base and chip coat, we recommend waiting overnight before applying Acrylic Coating 230 W to seal the chips and flakes.

After you have scraped and recovered the flooring chips and flakes as you would normally do, you may apply this sealer to achieve a smoother polyaspartic top coat. Cut in the edges of the floor and roll out this material using a cross-hatch rolling technique, take note to work fast and not let the material puddle, pool or build up in floor joints. Back roll as necessary to remove roller lines.

Recoat Information

Acrylic Coating 230 W may be recoated with itself or a waterborne polyurethane as soon as the material is tack free, typically 1-2 hours depending on temperature and humidity. Allow the material to dry overnight before recoating with any solventborne top coats. Acrylic Coating 230 W is milky white in appearance while wet and will dry clear.

High temperatures, lower humidity and good ventilation equal very fast dry times.

Low temperatures, higher humidity and poor ventilation equal very slow and extended dry times.

The 1 to 2 hour dry time is based on typical summer temperatures and average humidity conditions in Phoenix, Arizona, where temperatures regularly exceed 100°F with a relative humidity around 20%. We recommend allowing Acrylic Coating 230 W to dry overnight before applying any solventborne top coats in climates where temperatures are less extreme with higher humidity.

Many applicators will coat with 230 W and wait till the next day to top coat with polyaspartic, and others will coat over the 230 W within the shorter time frame. Since dry time windows will depend on your local environmental and site factors, the applicator must make the decision when Acrylic Coating 230 W is sufficiently dried to allow coating over with a solventborne material. Application of solventborne top coats without allowing Acrylic Coating 230 W to dry over night is at your own risk.

Slip Resistance Warning:

Mirabel Coatings Inc. recommends use of slip-resistant additives in all top coats and other surfaces that may be exposed to wet, oil, greasy or slippery conditions to meet OSHA and American with Disabilities Act (ADA) standards for co-efficient of friction. It is the responsibility of the contractor and property owner to ensure these standards are met. Mirabel Coatings, Inc. is not liable for the contractor or property owner's failure to apply sufficient slip-resistant additives to produce a final cured floor surface that is within spec of OSHA and the ADA. Contractor and/or property owner shall have responsibility to install a flooring system that meets current safety standards. Mirabel Coatings, Inc. or its sales agents do not accept responsibility for and will NOT be held liable for injury or damages from any slip and fall accident.

WARRANTY INFORMATION

Mirabel Coatings guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of Mirabel Coatings Inc. **MIRABEL COATINGS, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.** Mirabel Coatings, Inc. shall not be liable for damages caused by application of its products over concrete with poor preparation (failure to diamond grind or shot blast), excessive moisture vapor transmission or alkalinity. Mirabel Coatings, Inc. shall not be liable for any injury or damage incurred in a slip and fall accident. Mirabel Coatings Inc. shall not be liable for prospective profits or consequential damages resulting from the use of this product.