



200 Acrylic Urethane

FOR PROFESSIONAL USE ONLY

Description

200 Acrylic Urethane is a two-part acrylic urethane. 200 Acrylic Urethanes fast dry and high gloss make it an excellent choice for automotive, truck and bus refinishing applications. Gloss retention, chemical resistance and stone chip resistance meet the high standards for finishes required in today's market.



3	200 Acrylic Urethane
1	200 Activator/hardener
0.5	R200 Reducer



Use U-Tech measuring stick
106



Spray gun set-up:
1.8–2.2 mm
HVLP max. 10 psi at air cap

Application pressure:
40-50 psi (3-4 bar)
o Check gun manufacturer specification



2-3 x 1 coat
Apply single coats



Between coats
10-15 minutes at 70°F (20°C)



Dry Times	70°F (20°C)	140°F (60°C)
Dust Free	45 Minutes	N.A.
Dry	15 hours	45 minutes



Use suitable respiratory protection
Akzo Nobel Car Refinishes recommends the use of a fresh air supply respirator. Dry sanding, grinding, abrading, flame cutting and/or welding of the dry paint film will produce hazardous dust and/or fumes. Wear suitable NIOSH / MSHA approved respirator to avoid inhalation. Avoid all contact with airborne particles.

Read complete TDS for detailed product information

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Product and additives

Product 200 Acrylic Urethane

Hardener 200 Activator/hardener

Reducers **R200 Fast Reducer:** For spot and panel repairs. 60°F–75°F (16°C–24°C).
R200 Medium Reducer: For larger areas and overall refinishing. 70°F–85°F (20°C–30°C).
R200 Slow Reducer: For overall refinishing and warm temperatures. 80°F–95°F (27°C–35°C).
R200 Extra Slow: For large areas and overall refinishing in very warm weather. 100°F (38°C) and above. Can be mixed with R200 Slow.

Additives

- U-Tech LV Flex Agent: An Additive to increase flexibility of 200 Acrylic Urethane for use on flexible parts.
- T890 Flattening Agent: A matting agent designed to reduce the gloss level of single stage topcoats down to eggshell or matte if desired.
- C200T (texture blender): Provides a durable texture finish for ready mix 200 Acrylic Urethane.
- C200F (flattening blender): Designed to reduce the gloss level of ready mix 200 Acrylic Urethane topcoats down to eggshell or matte if desired.
- U-Tech Blending Reducer: A special solvent to dissolve fade out areas of spot repairs.

NOTE: Special C200 blenders should replace the standard C200 Blender when mixing the color.

Basic raw materials

200 Acrylic Urethane: polyurethane resins.
200 Activator/hardener: polyisocyanate resins
R200 Reducers: special solvent blends

Suitable substrates

200 Acrylic Urethane can be directly applied on top of the following surfaces:

- All existing finishes degreased and sanded with #P400 to #P500 grit paper dry (DA) or #P500 to #P600 grit wet.
- Aluminum after it has been properly treated with M5700 Alodine®. Please refer to the M5700 Alodine® TDS.
- All U-Tech preparatory products.

Mixing Ratio



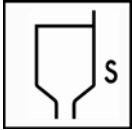
3 parts by volume of
1 parts by volume of 200 Activator/hardener
0.5 parts R200 Reducer

For easy and accurate mixing, use U-Tech measuring stick No. 106

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Viscosity



18 seconds ZAHN cup #2 (15 seconds DIN #4) at 70°F (20°C).

Spray gun set-up / application pressure



Pressure Feed
HVLP Siphon
HVLP Gravity

Fluid Tip
1.0–1.2 mm
1.8–2.2 mm
1.4–1.5 mm

Spraying Pressure
40–50 psi
max. 10 psi (air cap)
max. 10 psi (air cap)

Fluid Pressure
8–10 psi

Application process



200 Acrylic Urethane solid colors should be applied in two to three single flowing coats after the stated flash-off time.

Metallics: Apply two (2) single flowing coats. After the stated flash-off time, apply the second coat. The coats of U-Tech 200 Acrylic Urethane should be applied with sufficient flow, but should not be applied too heavily or excessive mottling will occur.

If required, after a flash off time of 5-10 minutes, even out the metallic pattern with a final mist coat by holding the spray gun at a 45° angle to the panel. Adjust the material flow from the spray gun by means of trigger control. Do not make this coat too wet. Application affects the final color. A light mist coat lightens the color. A heavy or wet mist coat will make the color darker.

C200T (texture blender): Apply a light first coat establishing the textured foundation and then apply one to two flowing coats after the stated flash time.

Integrated clearcoat: MS Clear can be integrated with the 200 Acrylic Urethane to add depth and durability. Spray 2 wet coats of U-Tech 200 Acrylic Urethane color. Activate reduce MS Clear (see MS Clear TDS). Then integrate RTS MS Clear and RTS 200 Acrylic Urethane color 1:1. Then apply a final wet coat. With metallic colors, 200 Acrylic Urethane can be clearcoated after 30 minutes at 140°F (60°C) or 12 hours at 70°F (20°C).

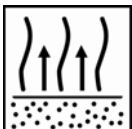
Pot-life

4 hours at 70°F (20°C)

Film thickness

Per coat: 1.0 mils. (25 µm)
The total dry layer thickness: 2 mils. (50 µm)

Flash off



10 – 15 minutes between coats



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Drying times



	70°F (20°C)	140°F (60°C)
Dust Free	45 Minutes	N.A.
Dry	15 hours	45 minutes

Polishing



Dust and minor damage can be polished out after the stated dry times listed in the table below. Preparation and Polishing: Recommended is a high quality polishing system such as that from 3M, Perfect-It 3000 system.

NOTE: When heavy color sanding and rubbing are required, all 200 System colors must be clearcoated. Apply 1 coat of appropriate U-Tech MS clearcoat.

Recoatable with

Striping or lettering on 200 Acrylic Urethane topcoat must be applied within 24 hours for good adhesion. After 24 hours, scuff with gray scuffing pad.

Decals can be applied after 48 hours at 70°F (20°C)

Material usage

With recommended application, the theoretical material usage is ± 497 sq.ft./gl (m²/liter) per coat.

- *The practical material usage depends on many factors i.e. shape of the object, roughness of the surface, application techniques, pressure, method and application circumstances.*

Cleaning of equipment

Clean equipment with extra strong cleaning solvents or lacquer thinner

VOC

200 Acrylic Urethane

5.0 lb/gal (598 g/liter)

Product storage

Store products unopened, and used products with closed lids preferably between 60°F-95°F (10°C-35°C) Avoid too much temperature fluctuation, optimal storage temperature approximately 70°F (20°C)

- 200 Acrylic Urethane Toners: 2 years
- 200 Activator/hardener: 12 months
- R200 reducers: 2 years



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IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advices given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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