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## Technical Data Sheet

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- Properties:** AKEMI® Turbo Gloss 2K-UHS Clearcoat 2:1 is a high quality, low-solvent polyurethane coat based on acrylate hardened with isocyanate. The product is characterized by the following properties:
- complies with VOC guidelines 2004/42/EG [2004/42/2B(d)(420)]
  - high solid content
  - easy to apply
  - excellent reliability against environmental and weather influence
  - outstanding maintenance of brightness
  - offers durable protection for the vehicle
- Application Area:** AKEMI® Turbo Gloss 2K-UHS Clearcoat 2:1 is mainly used for complete or partial paintwork in the vehicle and industrial sector.
- Instructions for Use:**
1. Do not apply at object and material temperature below +18°C. The best application temperature is between +20 and +25°C.
  2. Two parts by volume of AKEMI® Turbo Gloss 2K-UHS Clearcoat 2:1 are thoroughly mixed with one part by volume of AKEMI® Hardener for Turbo Gloss 2K-UHS Acrylic Clearcoat 2:1 fast or normal. Addition of Acrylic Dilution normal: max. 5%.
  3. Application:
    - Spray-gun, air, cup:
    - Viscosity: 17 - 20 s/4 mm cup/20°C
    - Nozzle: 1.2 – 1.4 mm, air pressure: 2 – 3.5 bar
    - Spray-gun, air, cup HLVP:
    - Viscosity: 17 - 20 s/4 mm cup/20°C
    - Nozzle: 1.2 – 1.4 mm, initial pressure: 3 bar, HVLP-pressure: 0.7-1,0 bar
  4. Potlife 60 min at 20 °C and 65 % relative atmospheric humidity.
  5. Distance to object 10 – 15 cm. Spray 1 closed coat for adhesion and after 5 – 10 min 1 coat evenly, 1.5 spray runs.
  6. Drying Time:
    - Room temperature:
    - Dust free: 2 h
    - Ready to assemble, grindable: 6 – 8 h
    - The drying times are based on tests at 20°C and 65% relative atmospheric humidity with a dry film thickness of approx. 60 µm.
    - Oven drying:
    - Flash-off time:  
approx. 5-10 minutes (depending on room temperature)
    - Drying time with hardener normal:  
After 10-15 minutes at 60°C/140°F object temperature
    - Drying time with hardener fast:  
After 10-15 minutes at 60°C/140°F temperature
    - IR-Drying:
    - Flash off: 10 minutes
    - Drying time with hardener normal: 15 minutes
    - Can be polished after cooling.
  7. Tools can be cleaned with VOC compliant Dilution (e.g. AKEMI® Universal-Dilution). The cleaning is subject to the VOC regulations.
  8. For proper waste disposal the container must be completely emptied.

**Technical Data:** Colour: colourless  
Gloss: high gloss

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**Technical Data Sheet**

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Solids of weight:	approx. 60% (of mixture)
Solids of volume:	approx. 52% (of mixture)
Density:	approx. 1.00 g/ml (of mixture)
Recommended dry film:	40 – 60 µm
Theoretical coverage at 60 µm DFT:	approx. 8.7 m <sup>2</sup> /l The practical coverage may be lower depending on the kind of application, design, roughness of surface or application conditions.

Viscosity as supplied at 20°C:	
Mixture	approx. 20 s/4mm DIN Cup (DIN 53211)
(Base component)	approx. 45 s/4mm DIN Cup (DIN 53211)
(Hardener component)	approx. 12 s/4mm DIN Cup (DIN 53211)

VOC:	< 420 g/l
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**Storage:** 12 months (coat component), 12 months (hardener) in originally sealed containers stored at cool place.

**Health & Safety:** Read Material Safety Data Sheet before handling or using this product.

**Important Notice:** The above information is based on the latest stage of development and application technology. Due to a multiplicity of different influencing factors, this information – as well as other oral or written technical advises – must be considered as non-binding hints. The user is obliged in each particular case to conduct performance tests, including but not limited to trials of the product, in an inconspicuous area or fabrication of a sample piece.

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