



Technical Data Bulletin

Fleet, Farm, Heavy Equipment & Industrial Maintenance Finishes

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A complete selection of high performance finishes, primers, hardeners, clear coats and reducers

MAGNACRYL™

3.5 VOC Acrylic Enamel Fleet Finish

- High solids, high build finish • Extremely fast drying
- Sprayable using conventional or HVLP equipment
- Abrasion and impact resistant • Long term durability
- Sharp automotive gloss appearance
- High distinctness of image (DOI)
- Excellent color retention and fade resistance
- Outstanding resistance to gasoline and diesel fuel
- Excellent flexibility and adhesion over primed surfaces
- Factory pack and custom colors
- High solids urethane catalyst
- Available in 1 and 5 gallon cans



MAGNACRYL™ will save refinishers from 40 to 70% compared to national automotive paint brands.

Product Description

MAGNACRYL™ 9000 Series High Solids Acrylic Enamel is a single-stage, fast drying, durable finishing system specifically developed for the automotive, truck, commercial fleet, OEM and industrial finishing markets. Magnacryl offers refinishers a chemical and solvent resistant paint film that resists chipping, cracking and fading. Comprised of 50% higher volume solids than conventional acrylic enamels, Magnacryl offers outstanding hiding properties and typically covers up to 30% more than other finishes. It contains less than 3.5 lbs. per gallon VOC and is *lead-free. When mixed with 1 pint per gallon of MAGNATHANE™ 79HS High Solids Super Wet Look Catalyst, its gloss, gloss retention, durability and service life are dramatically increased and recoat sensitivity is eliminated. For overall refinishing, 9000 Series provides versatility and durability at a value not seen in today's high priced paint markets. Not for use over acrylic lacquers or uncured/catalyzed finishes.

Suggested Uses: Commercial fleet vehicles including trucks & trailers, school buses, taxis, RVs, heavy equipment, tractors and all farm implements, aircraft, fork lifts, boat trailers, custom bodies, machinery, signs, off-road equipment, airport ground service vehicles, military vehicles, amusement park equipment, rebuilt automotive parts and all high quality metal finishing applications, etc.

Directions For Use

Surface Preparation: General - Remove all rust by grinding or abrasive blasting to clean metal. Fill as needed using an appropriate body filler. Shape as desired and allow filler to cure before coating. Sand repair areas and feather-edge finishing with 320 grit paper. Bare Metal and Aluminum - Wash surfaces with a mild detergent. Clean and degrease with Magnet GWR10 Grease and Wax Remover and wipe dry with clean, dry cloth. Treat bare metal areas with an appropriate Metal Conditioning System.

Painted Surfaces - Wash surface with a mild detergent. Clean and degrease with Magnet GWR10 Grease and Wax Remover and wipe dry with clean, dry cloth. Sand thoroughly using 320 grit paper and feather-edge broken areas. Remove sanding dust with GWR10. Treat bare metal areas with an appropriate metal conditioning system.

PRIMING: Prime surfaces with one coat of MAGNET 300 Series Universal Automotive Primer. For superior corrosion protection, apply MAGNAPOXY™ 1900 Series Epoxy Primer.

SPRAY VISCOSITY: In VOC regulated areas, apply Magnacryl as supplied using HVLP or Airless spray equipment — further reduction will result in greater than 3.5 lbs./gal. VOC. However, in non-regulated areas, Magnacryl can be reduced up to 25% if desired with the following MAGNET reducers:

R760 (50 – 70°F) R740 (70 – 85°F) R720 Retarder (Over 85°F)

CATALYST: Add 1 pint of MAGNATHANE™ 79HS High Solids Super Wet Look Catalyst to each gallon of enamel. **NOTE:** To catalyze less than one full gallon, carefully measure eight parts of enamel to one part 79HS Catalyst.

SPRAY PRESSURE: Air pressure for pressure pot application should be between 55 - 60 psi at the gun.

APPLICATION: Apply 2 or 3 medium-wet coats. Allow each coat to dry hand slick (25 to 35 minutes) at normal temperatures (70°-85°F) before applying succeeding coats. Air dry overnight at temperatures of 70 - 85°F or force dry 30 minutes at 140°F before placing in service.

RECOAT: Catalyzed: Within 3 hrs. or after 24 hrs. Uncatalyzed: Within 3 hrs. or after 1 week.

FISHEYES: Use 250S additive (up to 1 oz. per gallon) to eliminate fisheyes.

POT LIFE: Once catalyzed, 9000 Series Enamels have a workable pot life of 4 hours at 70°F (21°C). Do not catalyze more material than you can use in a 4 hour period.

CLEAN-UP: Clean spray equipment immediately after use with MAGNET R740 or R760 Reducer or lacquer thinner. Do not leave catalyzed material in the gun or hoses.

STRIPING, LETTERING & DECALS: Allow Magnacryl Acrylic Enamel to dry at least 4 hours before striping, lettering or applying decals.

WAXING: Allow 90 days for MAGNACRYL™ Acrylic Enamel to harden before waxing.

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Health & Safety Data

IMPORTANT: Spray equipment must be handled with due care and in accordance with manufacturer's recommendations. Spraying of any material can be hazardous. Wear respirator, eye protection and protective clothing. When this material is blended with a hardener, catalyst or activator additive containing isocyanates, blended materials require all cautions for spraying isocyanates.

DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVER SPRAY IS PRESENT, USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (TC-19C NIOSH/MSHA).

Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. Wear eye and skin protection.

USE ONLY WITH ADEQUATE VENTILATION

KEEP OUT OF THE REACH OF CHILDREN DO NOT TAKE INTERNALLY

(See Individual Label Directions For Use Of Other Magnet Products)

FOR BEST RESULTS: Apply coatings only to properly cleaned and primed surfaces. **NOTE:** Do not apply if material, substrate or atmospheric temperature is below 50°F (10°C) or above 90°F (32°C). Relative humidity should be below 90%. Do not apply over existing surfaces without first testing for lifting. Do not paint on damp or rainy days. Do not mix with other paints or reducers other than those recommended.

IMPORTANT: May be mixed with other components. Mixture will have hazards of both components. Before opening the packages, read all warning labels. Follow all precautions.

NOTICE: Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Do not breath vapors or spray mist. Do not get in eyes or on skin.

WEAR A PROPERLY FITTED VAPOR/PARTICULATE RESPIRATOR approved by NIOSH/MSHA for use with paints (TC-23C), eye protection, gloves and protective clothing during application and until all vapors and spray mist are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper respirator fit is not possible, wear positive-pressure, supplied-air respirator (NIOSH/MSHA TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

Contents are **FLAMMABLE**. VAPORS MAY CAUSE FLASH FIRE. Keep away from heat, sparks and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. Do not transfer contents to bottles or other unlabeled containers for storage. Close container after each use. Use only with adequate ventilation. Wash hands after using.

IN CASE OF FIRE: Use dry chemical, carbon dioxide, water spray fog, or alcohol foam. Closed containers may rupture or explode when heated. Keep cool with water spray.

FIRST AID: If affected by inhalation of vapor or spray mist, remove to fresh air. In case of eye contact, flush eyes immediately with large amounts of water for at least 15 minutes and call a Physician. In case of skin contact, remove promptly by wiping, followed by waterless hand cleaner and soap and water. If irritation persists, see a physician. If swallowed, CALL A POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN IMMEDIATELY; have label information available. DO NOT induce vomiting. Remove and discard contaminated shoes and clothing or launder before reuse.

SPILL/WASTE: Remove all sources of ignition. Ventilate area and remove spilled material with inert absorbent. Dispose of contaminated material and/or unused contents in accordance with local, state and federal regulations. Careless disposal of any product is not environmentally responsible. Call your local sanitation department for aid in disposing of unwanted product in your area or call the Environmental Protection Agency Solvent and Hazardous Waste Hotline at 1-800-424-9346. Do not dump on the ground or in local sewer or discharge system.

(For further information refer to Material Safety Data Sheet)

Technical Data & Product Specifications

Colors: Over 80 ready mixed factory packaged *lead free colors. Custom factory tints available in 50 gallon lots. Tinting bases available for smaller custom color orders.

Finish: High Gloss (90+)

Application: Conventional, airless or HVLP spray, brush and roller for small areas

Vehicle Type: Acrylic hybrid polymer

Solvent Type: Methyl isobutyl ketone, xylene, aromatic hydrocarbon

VOC: Maximum 3.5 LPG / 420 GPL

Flash Point: 60°F (15°C) T.C.C.

Weight Solids: 66% (varies by color)

Volume Solids: 52% (varies by color)

Coverage: Theoretical coverage at one mil dry film thickness is 962 ft²/U.S. gallon, and at two mils dry, 481 ft²/U.S. Gallon

Recommended Dry Film Thickness: 1.5 - 2.5 mils

Viscosity @ 75°F: 50 - 60 KU

Dry Time @ 75°F: With the addition of 1 pint per gallon of MAGNATHANE™ 79HS Catalyst, Magnacryl 9000 Series dries dust free in 25 - 35 minutes, tack free in 1 hour and is ready for recoat in 1 ½ - 2 hours. Without catalyst: 45 - 60 minutes dust free, 1 ½ hours tack free and 2 ½ - 3 hours recoat. Can be force dried for 30 minutes at 140°F.

Reduction: In regulated areas, apply Magnacryl as supplied using HVLP or airless spray equipment - further reduction will result in greater than 3.5 lbs per gallon VOC. However, in non-regulated areas, Magnacryl can be reduced up to 25% if desired with the following MAGNET Reducers:

R760 Low Temp (50 - 75°F), R740 Medium Temp (70 - 85°F)

R720 High Temp Retarder (Over 85°F)

Priming: 300 Series Universal Automotive Primer, MAGNAPOXY™ 1900 Series 2K Epoxy Primer

Working Pot Life: Not applicable unless catalyzed with one pint per gallon of MAGNATHANE™ 79HS Catalyst. Once catalyzed, 9000 Series Acrylic Enamels have a workable pot life of 4 hours at 70°F (21°C). Do not catalyze more than you can use in a 4 hour period.

Shelf Life: Minimum 24 months in unopened containers

Packaging: 1 gallon cans (4 per case), 5 gallon pails, 55 gallon drums

Performance Properties *

Initial Gloss, 60°	96
Pencil Hardness	F
Direct Impact, in/lbs.....	125
Reverse Impact, in/lbs.....	45
Acid Resistance	10
Caustic Resistance	10
Solvent Resistance	10

* Minimum cure time - 7 days ambient with addition of 1 pint 79HS Catalyst per gallon of Magnacryl 9000 Series Acrylic Enamel: Acid, caustic and solvent resistance are rated on a scale of 10 - 1, with 10 equal to no effect after a 24 hour spot test. Solvents and substances tested include: MEK, Toluene, Naphtha, Grease, Diesel Fuel, Gasoline, Gasohol, and Road Tar. Acids tested with ratings of "10" include solutions of: 5% Sodium Hydroxide, 20% Hydrochloric Acid, 20% Phosphoric Acid, 5% Tannic Acid, 10% Sulfuric Acid.

LIMITED WARRANTY: Since the use and application of this product is beyond the control of the seller or manufacturer, the sole responsibility under this guarantee and under any other warranty or guarantee, expressed or implied, in connection with the sale and use of this material, shall be the return of the purchase price of this material or, at the seller's option, replacement of the material, if proven defective. Neither labor costs nor any consequential damages are covered by this limited warranty. This product is sold subject to the understanding that the buyer assumes all risks of use or handling which may result in loss or damage which are beyond the control of Magnet Paint & Shellac Co., Inc. or McGREAVOR Coatings such as, incompatibility with other products and the manner of their use or application. **NO OTHER EXPRESSED OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY IS MADE.** The buyer and all users are deemed to have accepted the terms of this notice which may not be varied.