



"Passionate about Paint"

TECHNICAL DATA SHEET

Product:

4564 - High Solids Ultra Low VOC 2K
Urethane Topcoat

Product Description & Suggested Uses:

4564 is a high-build isocyanate cured acrylic urethane topcoat for industrial exterior applications requiring excellent weathering, corrosion and chemical resistance. Sufficient film build can be achieved with a single coat application. Typical uses include; railcar exteriors, water towers, storage tanks, and structural steel.

Mixing and Thinning/Reducing Instructions:

Mix four (4) parts 4564 part A (colored/tinted) with one (1) part 4564 catalyst. No reduction is necessary. If reducing or thinning is required, please contact your Love & Associates (L&A) technical service representative for instructions.

Directions for Use :

Surface must be clean, dry, sound and free of dirt, dust, grease, oils, residues, waxes, water, foreign particles, and any other contaminants that may interfere with coating adhesion and intimate contact with substrate. Prepare the substrate by abrasive blasting, high pressure water/steam cleaning, chemical cleaning, and/or other approved method to achieve clean and sound surface, including priming.

4564 is designed to be applied by airless spray with 0.013-0.017" tips at 3000-5000 psi. During application, the substrate temperature must be 5 degrees above the dew point. Condensation due to substrate temperatures below the dew point can result in flash rusting on prepared steel and negatively impact adhesion to the substrate.

Clean-up:

Clean all equipment immediately after use with methyl ethyl ketone (MEK), acetone, or other L&A approved solvent(s). Use clean solvent only. In case of spill, absorb and dispose of in accordance with local, State, and/or Federal regulations.

Storage & Shelf Life:

Store indoors in original, tightly sealed container out of direct sunlight between 40°F (5°C) and 100°F (38°C), 0% to 90% relative humidity. Warranted shelf life is 1 year from date of manufacture (DOM) in original unopened and properly stored container.

Typical Mixed Physical Properties:

Color	Black, White, 7035 & 7044 Gray
Type	Isocyanate Cured Acrylic Urethane
Viscosity (77°F)	25-35 sec (#3 Zahn)
Dry Time (77°F)	2 hrs Touch, 6 hrs handle,
Weight/Gallon	9.1-11.6 lbs/gal
% Solids (by Volume)	64-68%
% Solids (by Weight)	74-80%
VOC	1.7-1.9 lbs/gal
Recoat	Minimum 8 hrs, Maximum 5 days
Flash Point	5°F
Pot Life	3 hours at 25°C (77°F)
Gloss	95 Degrees
Recommended DFT	2-3 mils (50-75 um) per coat
Maximum DFT	6 mils (150 um) per coat
Coverage	1000-1100 ft ² @ 1.0 mils
Sag Resistance	8+ mils (200 um)
Mix Ratio	4:1 by volume 4564 Catalyst

Packaging:

4564 is available in one-gallon kits, five-gallon kits and 55-gallon steel drums. For additional packaging options, please contact your local Love & Associates representative.

Safety Information:

Avoid contact with skin and use good ventilation. Wear chemically resistant gloves (nitrile are recommended) and chemical safety glasses. If skin contact is made, wash immediately with soap and water. Do not use solvents to clean skin. Refer to Safety Data Sheet for further safety and handling information.

FOR PROFESSIONAL USE ONLY
NOT FOR RESIDENTIAL USE
KEEP OUT OF REACH OF CHILDREN



L&A COATINGS

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Physical Performance Properties:

Test	Test Method	Result
Adhesion	ASTM D3359	5A (0% loss)
Pencil Hardness	ASTM D3363	HB-H
Abrasion resistance	ASTM D4060	1000 cycles, 200 mg loss
Bend – Flexibility	ASTM D522	Passes 1/8 inch Mandrel Bend
Impact	ASTM D2794	160 in/# Direct 160 in/# Reverse
Salt Fog	ASTM B117	3000 hours, 3 mils t/c, 3 mils 1227 EP primer Blasted Steel-No rusting/blistering
Humidity	ASTM 4585	2000 hours, 3 mils t/c, 3 mils 1227EP Primer Blasted Steel–No rusting/blistering
QUV-UVA 340	ASTM G 154	5000 hours, excellent color & gloss retention

Warranty & Limitation of Seller's Liability

All statements made on any product, product label, product manual, product data sheet(s), technical data chart(s), or specification chart(s) contained herein, are accurate to the best of our knowledge. The product(s) and information are intended for use by trained persons having skill and knowledge in the industry at their own discretion and risk. Love & Associates, LLC warrants only that its coatings, resins, inks and/or adhesives represented herein meet the formulation standards of Love & Associates, LLC. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY THE SELLER, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OR LAW, OR OTHERWISE INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note that workmanship, weather, construction equipment, quality of other materials and other variables affecting the results and performance are beyond our control. No agent, employee, or representative of seller has any authority to bind seller to any affirmation, representation or warranty except as stated above.