

ESSENTIAL R4584

SILICONE-MODIFIED POLYURETHANE DISPERSION

Essential R4584 is a silicone-modified polyurethane dispersion for use where coatings require outstanding mar and scratch resistance properties and a lower coefficient of friction is seen as a benefit. R4584 will impart water-beading/sheeting properties to your coatings as low as 7.5% based on resin solids.

R4584 can be blended with acrylic polymers to create coatings for wood, metal, and plastics.

KEY BENEFITS

- Silicone-modified PUD
- n-MP-free
- Lower coefficient of friction
- Mar and scratch resistance

DISCLAIMER: The information and recommendations contained herein are based on data believed to be correct. The information is offered solely for the customer's consideration, investigation and verification because of numerous factors beyond our control affecting the results of the use of products, Essential Industries, INC. makes no warranty of any kind, expressed or implied, including those of merchantability and fitness for a particular purpose, other than that the product conforms to its applicable current standard specification. The manufacturer's only obligation shall be to replace such quantity of the product proven to be defective.

TYPICAL PROPERTIES*

| | |
|-----------------------------|-------------|
| Appearance | Translucent |
| pH..... | 8.10 |
| Solids, % by Weight | 34.0 |
| Viscosity, cps @ 25°C | <400 |
| Density, lbs/gal | 8.8 |
| % VOC | 11.4 |
| Particle Charge | Anionic |
| Acid Number | 23 |
| Freeze/Thaw Stability | Fails |

Film Properties

| | |
|--|-----|
| All tests were performed on coatings kept at 77° F and 50% RH for seven days before testing. | |
| Tensile Strength, PSI | 750 |
| Elongation at Break, %..... | 350 |

*These values should not be interpreted as specifications.



**Essential[®]
Polymers**

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