# GARAMITE 2578

## Rheological Additive for High Solids and Baking Enamels

## Product Data

**Special Features and Benefits**
GARAMITE 2578 is a unique rheological additive developed for high solids and baking enamels. GARAMITE 2578 is also recommended for use in high solids and thin film solvent based and 100 % solids systems. Compared to fumed silica, GARAMITE 2578 provides improved sag resistance, rheology control and stability, is more efficient and is easier to handle in manufacturing (less dusty, higher bulk density and not sensitive to shear). GARAMITE 2578 will typically provide higher sag resistance, thermal slump resistance and settling resistance than thixotropes such as fumed silica, organoclays, hydrogenated castors, and polyamide waxes. GARAMITE 2578 will provide these superior properties at equal or lower viscosities than your current thixotrope.

Benefits

· Dispersion Ease
· Low Viscosity/High Performance
· Improved Thermal Slump Resistance
· Viscosity Stability
· Shear Stable
· Syneresis Prevention
· Settling Prevention
· Sag Prevention
· Increased Efficiency
· Increased Efficiency

**Recommended Levels**
Because the recovery properties obtained with GARAMITE 2578 are unique, it is recommended application properties such as sag resistance or spray trials are used instead of viscosity to evaluate the efficiency of GARAMITE 2578. GARAMITE 2578 use levels are system dependent. A loading ladder from equal loading to 20-40 % less than your current thixotrope should be evaluated. Air release agents such as BYK-A 555* and rheological enhancers such as BYK-R 605* (typically added at 5-10% based on the weight of GARAMITE 2578) are beneficial in many systems and may be included in the overall optimization evaluation.

**Typical Properties**
The values indicated in this data sheet describe typical properties and do not constitute specification limits.

| | |
|---|---|
| Color: | Off White |
| Form: | Fine Powder |
| Moisture Content: | 6 % |
| Bulk Density: | 8 lbs / cu. ft. ~ 130 kg / cu meter |
| Specific Gravity: | 1.5-1.7 |

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Data Sheet
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## Incorporation and Processing Instructions

Incorporation procedures will vary based on the system being evaluated.

For solvent-containing systems, the recommended incorporation procedure is to add GARAMITE 2578 to the solvent under moderate shear. The addition of GARAMITE 2578 to the solvent at a 10-13 % GARAMITE 2578 loading level should achieve maximum efficiency during dispersion. Once this predispersion is made, it can be added at any point in the manufacturing process. The predispersion is indefinitely stable, requiring only slight agitation prior to use.

For 100 % solids systems, GARAMITE 2578 should be added under agitation to the lowest viscosity resin component of the system and allowed to mix until a Hegman reading of 7 is obtained. This will typically take from 15 to 30 minutes. You should then proceed to manufacture the remainder of your dispersion using the GARAMITE 2578 predispersion as a portion of the grind volume.

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