

# Dow Corning® RM 2051 Thickening Agent

## Applications

*Dow Corning®* RM 2051 Thickening Agent is a multifunctional solution that saves time and money. It can be used in a wide range of Personal Care applications:

- ▶ Skin care
- ▶ Sun care
- ▶ Rinse-off and leave-in hair conditioners
- ▶ Hair styling products

## Compatibility

*Dow Corning®* RM 2051 Thickening Agent is compatible with:

- ▶ A wide range of mineral and organic oils
- ▶ Elastomer blends, gum blends and other difficult-to-emulsify silicones
- ▶ Esters
- ▶ Sunscreens
- ▶ Vitamins
- ▶ Formulations with high solvent content

## Aesthetics

*Dow Corning®* RM 2051 Thickening Agent is a thickening polymer emulsified in a base of dimethicone and cyclopentasiloxane, so in addition to the multifunctional benefits described, the silicone carrier provides aesthetic benefits to your formulations:

- ▶ Smooth feel
- ▶ Non-greasy
- ▶ Non-sticky



*Simply pour and mix. All-in-one product combines stable thickening and emulsifying properties with the smooth, non-greasy and non-sticky aesthetics associated with silicones.*

## Ease of Use

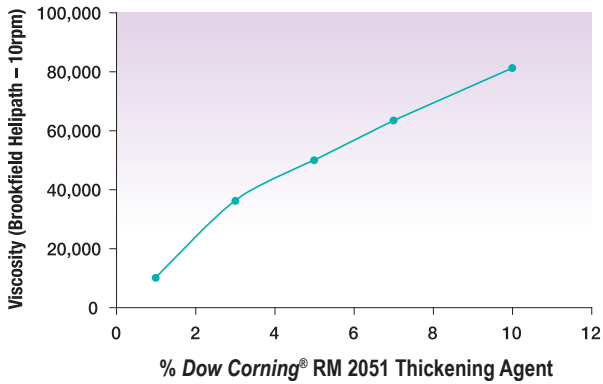
*Pour Dow Corning®* brand RM 2051 Thickening Agent in the oil phase, add water and mix-gelling is instant.

*Dow Corning®* RM 2051 Thickening Agent was designed for cold processing based on simple pouring and mixing. Our thickening agent is a water-in-oil emulsion of aqueous sodium polyacrylate in dimethicone (XIAMETER® PMX-200 Silicone Fluid 5 cSt). The emulsion also contains two surfactants, a silicone emulsifier (PEG/PPG-18/18 Dimethicone) to stabilize the *Dow Corning®* RM 2051 Thickening Agent and an inverting agent (trideceth-6), which helps bring the polymer into contact with the aqueous phase of the formulation. When water is added, the polymer expands instantly to thicken and give stability to the preparation.

As the formulation thickens, the oil phase ingredients are emulsified and stabilized.

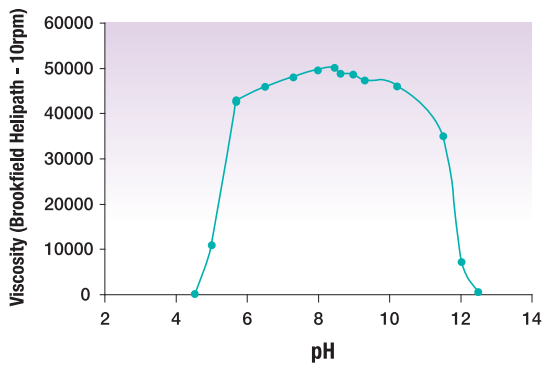
- ▶ No neutralization
- ▶ No heating
- ▶ Efficient use at low levels
- ▶ No clumping
- ▶ No dusting
- ▶ No static electrical charge

**FIGURE A**  
**Thickening Properties**

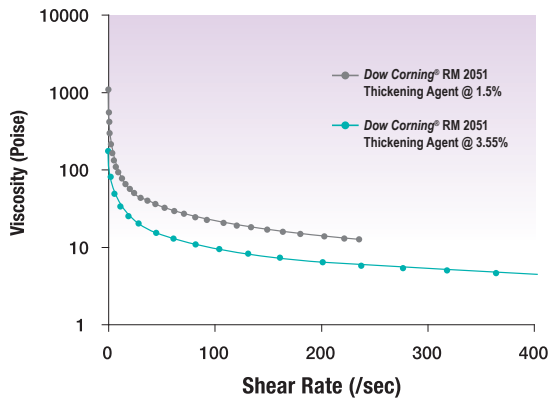


**FIGURE B**  
**pH Influence**

(Viscosity of a 5% Dow Corning® RM 2051 Thickening Agent aqueous gel vs. pH)



**FIGURE C**  
**Rheology Profile**



## Reliable Supply

As a global leader in silicones, silicon-based technology and innovation, the Dow Corning advantage is reliable supply, on-time delivery and local language support (product labels, collateral, technical/formulation assistance and more). Dow Corning also has one of the most sophisticated IT infrastructures available for improved enterprise resource planning around the world, electronic order entry, order tracking and invoicing.

## How can we help you today?

Whether you need industry-leading innovation or greater cost efficiency, Dow Corning can help. *Dow Corning®* brand solutions are dedicated to meeting your needs for specialty materials, collaborative problem solving and innovation support. Learn how we can help you **GO BEYOND** at [dowcorning.com/personalcare](http://dowcorning.com/personalcare).

If you simply need to buy standard silicone materials at market-driven prices, we can help you achieve that through our XIAMETER® brand product line. Learn more at [xiameter.com](http://xiameter.com).

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