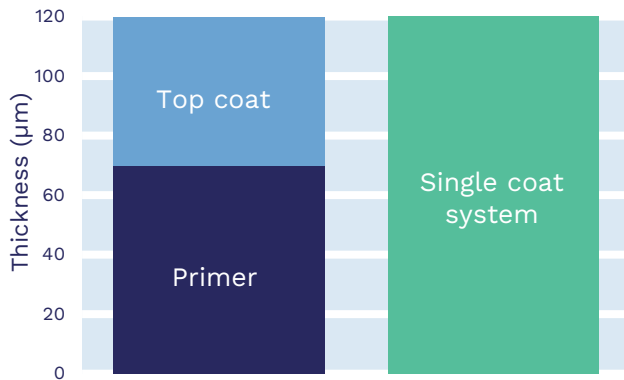


Technical Flyer

Cravallac® rheology modifiers for Direct To Metal Coatings (DTM)

Direct To Metal coatings have demanding requirements of **Non Volatile Content** during application. **Cravallac®** will allow to obtain high solids content with **ease of application** thanks to strong shear-thinning behavior.

DTM coatings, single coat alternative to top coat + primer systems, are an **economical solution to increase productivity** thanks to shorter applications time and reduced manpower.



System	Dry Film Thickness (µm)	Solid Content (% _{Weight})	VOC Level (g/L)
Direct To Metal	130	80	335
Standard Primer	70	69	440
Standard Top Coat	60	69	395



CRAYVALLAC® For DTM Coatings

Controlled rheology

Limited impact on gloss

For diluted and non-diluted systems

No impact on mechanical properties

Designed for high to low VOC systems

Key benefits

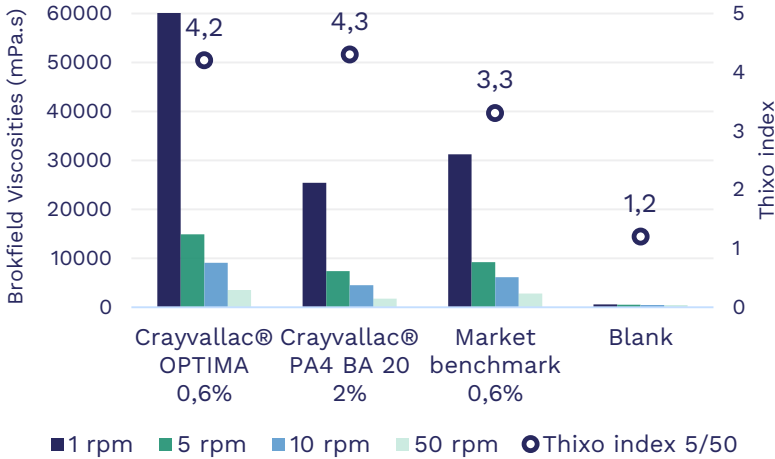
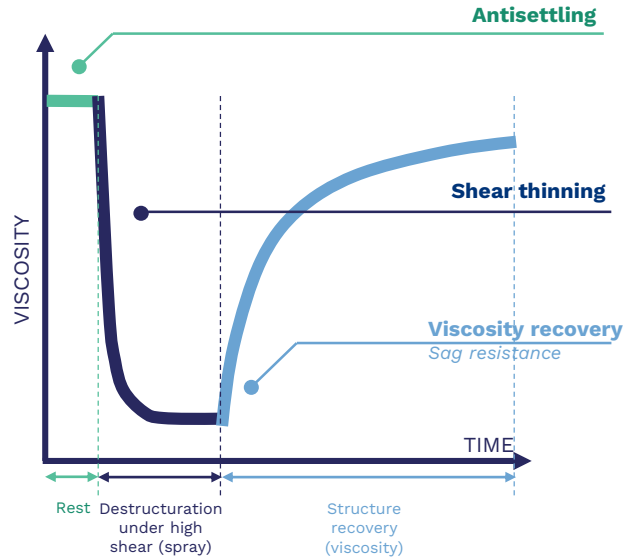
RHEOLOGICAL PROFILE

High viscosity at low shear
 → Crayvallac® for **antisetling** properties in low VOC.

Low viscosity at high shear
 → Crayvallac® for **ease of application** even for high solid formulations with limited viscosity adjustment

Excellent sag resistance and flow behavior
 → Crayvallac® for better **film leveling** to get high gloss even for **high film thickness**

Rheological requirements and Crayvallac® additives



SHEAR-THINNING

Strong shear-thinning will allow:

- **Ease of spray** without extended VOC use
- **High film thickness** for single pass applications

SAG RESISTANCE & GLOSS

Crayvallac® OPTIMA and Crayvallac® PA4 BA 20:

- Excellent sag resistance upon dilution
- Perfect leveling
- Good gloss

