

# DUST CONTROL

**Celvolit® liquid emulsions have been successfully used in field applications for dust control in many parts of the world. Functioning like an adhesive, the polymers bind the dust particles together and reduce their tendency to be mobilized by environmental factors such as wind.**

The particle binding properties of the polymers found in our emulsions prevent small dust particles from becoming airborne, which in turn mitigates dust-related environmental hazards, including reduction in visibility and air quality. Additionally, our emulsions can be used on dusty materials to reduce dust creation during their transportation, as well as the erosion of outdoor stockpiles due to weathering.

## Usage guidelines

Celvolit® emulsions can be applied using sprayable nozzles, pumps, and tanks. Typical emulsion application rate is 0.5–5.0% diluted in water no more than 24 hours prior to use. Ensure ambient conditions are suitable for proper drying and film formation.

## Benefits

- Improved durability, reduced frequency of re-application, cost savings over an extended period of time
- Less corrosive vs. commonly used mineral salts
- Enhanced binding to surfaces, reduced rate of removal by traffic and other environmental factors
- Increased water resistance

## Typical applications

- Dust mitigation for unpaved dirt roads and the surroundings, mines, construction sites, etc.
- Reduction of airborne dust during transportation
- Erosion control for outdoor stockpiles
- Landscaping spray-on adhesive for mulch and small stones



## Recommended Products

Products		Celvolit® VA 20	Celvolit® 3068
<b>Characteristics</b>	Chemical base	Vinyl acrylic	VAE
	MFFT (°C), approx.	10	0
	Tg (°C), approx.	20	10
	Solids content (%)	54.0–56.0	54.0–56.0
	pH value	4.0–6.0	4.0–5.5
	Brookfield viscosity (25 °C) (mPa-s)	100–400	75–450
	Stabilization	Surfactant	Surfactant
<b>Performance</b>	Ease of handling & on site dilution	●●●	●●●
	Service life expectancy	●●●	●●
	Water resistance	●●●	●●●
<b>Applications</b>	Dust control	●●●	●●●
	Soil stabilization	●●●	●●
	Erosion control	●●●	●●●
<b>Benefits</b>		A versatile vinyl acrylic emulsion for dust control; improves durability and water resistance with improved service life and reduced need for re-application. Easy on-site dilution and application by conventional sprayers. Equally effective when used as a polymer binder for soil stabilization.	A surfactant-based VAE broadly used for dust control in many situations including transportation of dusty materials. Also suitable for erosion control for stockpiles. Low Tg and MFFT enhance its ability to be used in suboptimal film formation field conditions.

●●● = excellent   ●● = very good   ● = good  
 ●●● = highly recommended   ●● = recommended   ● = suitable

## Emulsion Polymers

Celanese Corporation Headquarters  
 222 W. Las Colinas Blvd.  
 Irving, TX 75039, USA  
 tel. +1 887 832 7782 (Technical Service)  
 tel. +1 800 845 0940 (Customer Service)  
 celanese.com  
 Celvolit® Emulsions | Celanese

## Celanese Emulsions Technical Center

8040 Dixie Highway  
 Florence, KY 41042, USA  
 info.acetyls.americas@celanese.com