

Novus* CE2680

cationic emulsion polymer

- Increases efficiency of sludge dewatering operations
- Improves suspended solids removal operations and effluent quality
- Easy-to-feed liquid emulsion
- Improved, patented technology

description and use

Novus CE2680 is a liquid, high molecular weight, cationic emulsion polymer. This product is effective in liquid/solids separation applications and sludge dewatering. It is designed to function in a total SUEZ treatment program.

Novus CE2680 was developed specifically for the treatment of industrial wastewaters and sludges. When applied at the proper dosage, Novus CE2680 can produce excellent quality clarified wastewater, reducing the negative impact of wastewater contaminants on the environment and downstream treatment systems.

In sludge dewatering operations, Novus CE2680 can significantly improve released water clarity, sludge cake dryness, and the sludge processing rate. Novus CE2680 is particularly effective when treating paper industry wastewaters and sludges.

treatment and feeding requirements

Prior to initial use, Novus CE2680 should be thoroughly agitated with a drum mixer or recirculating pump for 30 to 60 minutes to ensure homogeneity. Remix the polymer for several minutes each day thereafter. (Bulk mixing or recirculation systems should be operated for 30 to 60 minutes daily.) Avoid water contamination

Water Technologies & Solutions fact sheet

caused by either condensation or water droplets, such as rain, in open containers.

Novus CE2680 can be prepared by using a continuous emulsion makedown unit or a batch system. To prepare stock solutions, first fill the solution preparation tank approximately one-third full of water (sufficient to cover the agitator blade). Begin agitating and slowly add the premixed polymer to the solution tank, either through a disperser unit or directly into the vortex of the tank solution. Continue to fill the tank with water to obtain a 0.5% to 1.0% solution. Continue to mix for an additional 10 to 20 minutes at low speed (350 rpm) until the solution is homogeneous. Avoid high speed agitation because it may lead to degradation of the polymer. For sludge dewatering applications, secondary dilution to a concentration of 0.1% before the point of application is recommended.

Neat Novus CE2680 can be handled with any appropriately-sized gear or diaphragm pump suitable for viscosities up to approximately 2,500 cps. Type 304 stainless steel, high density polyethylene, and rigid PVC are satisfactory for tanks, tubing, piping, and pumps. Viton and Teflon can be used for pump components and hose linings. (Viton is a registered trademark of DuPont. Teflon is a registered trademark of DuPont.) Flexible PVC tubing (such as Tygon) can be used for short-term installations, but may not be satisfactory in permanent applications. (Tygon is a registered trademark of Norton Co.) Avoid mild steel and copper alloys when possible because they will experience mild corrosion with this product. Nevertheless, many other materials of construction are compatible with Novus CE2680. Contact your SUEZ representative if you need more information.

Stock solutions should be handled with the same materials of construction. Positive displacement pumps, such as gear or piston pumps, can be used to meter the solution to the point of application.

Bulk tank storage should include a mixing or recirculation system, and the product should be mixed daily to ensure homogeneity. Bulk tanks should be installed so that Novus CE2680 cannot be accidentally contaminated with water, or product gelling may occur.

general properties

Physical properties of Novus CE2680 are shown in the Material Safety Data Sheet, a copy of which is available on request.

packaging information

Novus CE2680 is a liquid, emulsion product. Consult your SUEZ representative for packaging and delivery options.

storage and handling

Novus CE2680 should be stored at moderate temperatures of 40 to 90°F (4 to 32°C) and protected from freezing. This polymer should also be protected from rapid or repeated changes in temperature, which may lead to condensation within the container.

Spilled polymer is very slippery and precautions should be taken to avoid such spills. If a spill occurs, cover the polymer with an inert, absorbent material, sweep up the spill, and place it in a waste disposal container prior to flushing the area with water. The wet area may be slippery, so sand, grit, or another suitable material may be used to provide additional traction.

safety precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.

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