

PolyFloc* CE1154

high molecular weight flocculant

- Cost-effective liquid
- Effective emulsion breaker
- Dewater sludges, especially biological and oily solids
- Works in a variety of wastewater applications

description and use

PolyFloc CE1154 is a cationic, polymeric, high charge density, high molecular weight flocculant, designed to function in industrial treatment programs as a coagulant-aid, or flocculant, in clarification, emulsion breaking, and sludge dewatering processes.

PolyFloc CE1154 is a liquid emulsion, providing a cost-effective solution to many solids separation processes, particularly in effluent water treatment applications.

PolyFloc CE1154 produces a fast-settling floc, which reduces carryover and mitigates bulking problems when used as a flocculant in secondary clarifiers. It provides excellent coagulation/flocculation benefits to oily wastewater treatment units, especially flotation units, because of its strong emulsion-breaking properties.

PolyFloc CE1154 provides cost-effective sludge conditioning for those sludges having a high charge demand, such as biological and oily sludges. PolyFloc CE1154 produces a clean filtrate, high solids capture, and a drier cake, resulting in lower sludge transportation and disposal costs.

treatment and feeding requirements

PolyFloc CE1154 must be dissolved in water before use. The solution may be prepared in batch fashion by slowly adding the premixed polymer to the vortex of an agitated tank. Do not add water to the neat polymer.

Water Technologies & Solutions fact sheet

Recommended initial makedown solution concentration is 0.5% (0.3 to 1%). Low speed (350 rpm) mechanical agitation should continue until complete dissolution is accomplished. Avoid high shear or excessive agitation once the product has been dissolved. It is recommended that diluted solutions be used within 24 hours for maximum activity.

Continuous makedown systems are also available and can produce more reliable results than manual batch makedown. Further dilution of the stock solution to approximately 0.1% enhances polymer performance in most applications. For dewatering applications, dilution to approximately 0.25% may be more practical. Your SUEZ representative can assist you in this and other polymer feeding requirements.

Diluted product may be fed by a pump, an eductor, or by gravity flow to a point where good mixing but not violent agitation, of the treated water occurs. High speed mixing decreases the activity of the polymer. Pumps used to transfer the solution to the point of application should be positive displacement gear or piston pumps.

Liquid-side components of tanks, pumps, and piping can be constructed of 316 stainless steel or most plastics, with the exception of LD polyethylene and polypropylene. Mild steel and 304 stainless steel are acceptable only in systems where contamination by corrosion products is not a critical problem. Viton and Tygon rubbers are acceptable for pump components and hose linings. (Viton is a registered trademark of DuPont Dow Elastomers. Tygon is a registered trademark of Saint-Gobain Corporation.).

general properties

Physical properties of PolyFloc CE1154 are shown on the Material Safety Data Sheet, a copy of which is available on request.

packaging information

PolyFloc CE1154 is a liquid emulsion product, available in a variety of containers. Consult your SUEZ representative for delivery and packaging alternatives.

storage and handling

Store PolyFloc CE1154 at moderate temperatures of 45 to 95°F (7 to 35°C), and protect from freezing. Bulk containers should be insulated and heat traced (where necessary) if outdoors. Neat polymer should be recirculated or mixed periodically to avoid product separation. Recirculate one container volume per day.

Spilled polymer is very slippery. Small amounts of spilled polymer can be washed down with copious amounts of water. Large spills should be contained and absorbed on inert material, then disposed as solid waste prior to flushing with water.

safety precautions

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

LENNTECH

info@lennotech.com Tel. +31-152-610-900

www.lennotech.com Fax. +31-152-616-289