



Protection at the Speed of Light

# Slurry-Splitter

Item No: DP-SS – 100 – 01

## 1. Description

**DiamaPro® Slurry-Splitter** is a reactive separating agent composed of a polymer/mineral based flocculant (separator), and pH adjusting components formulated specifically to lower the pH of high pH concrete slurries and separate usable wastewater from concrete slurry. **Slurry-Splitter** will capture and encapsulate suspended cement particles to accelerate quick settling and easy dewatering. The clear processed water can be immediately recycled back into a storage tank for reuse on the jobsite.

**DiamaPro® Slurry-Splitter** contains positively charged polymers that attract the remaining emulsified oils, phosphates, and any negatively charged particles, separating them from the wastewater. Unlike conventional wastewater treatment systems that require multiple chemical additions to aid in this process, **Slurry-Splitter** performs this in a single time application.

## 2. Recommended Uses

- On all wet grinding, wet sawing, and wet core drilling projects where wet concrete slurry is generated
- To reduce high pH levels in concrete slurry for legal disposal
- To separate reclaimable water from the concrete slurry to be reused on the jobsite
- To reduce the weight of disposable sludge by separating reusable water
- To reduce dewatering process time

## 3. Technical Data

### PHYSICAL PROPERTIES

- Color Gray
- Bulk Density ~70 lbs./ft<sup>3</sup>

- Moisture Content 7-8%
- Particle Size 30-200 mesh - 96.3%

### PACKAGING

- 50 lbs. bags

## 4. Limitations

All wastewaters may not be compliant for landfill disposal even after treatment. The concrete substrate being processed might contain hazardous chemicals induced during its prior use that are not typically found in concrete.

## 5. Application Procedures and Instructions

### SLURRY-SPLITTER PRIMER

- Add 4 ounces of **DiamaPro® Slurry-Splitter** to 32 ounces of water and mix well to make the liquid Primer.
- To minimize slurry-build up within the vacuum and /or auto-scrubber lines, pour the mixed **PRIMER** onto the floor and immediately vacuum it from the floor with auto-scrubber or slurry vacuum after each time the storage tank is emptied. **CAUTION: This mixture can be slippery when poured onto a smooth surface.**

### SLURRY VACUUM PROCESS

- Prior to vacuuming the concrete slurry, pour the **PRIMER** mixture onto the floor and vacuum it up. This will coat the lines and storage tank to allow for easier cleaning.
- Vacuum as normal until the recovery tank is full.
- During vacuuming, the turbulence of the vacuum process will mix the **Slurry-Splitter Primer** with the concrete slurry to hydrate and start the separation process.



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- When the storage tank is full, remove the top and mix well with a power drill and mixing paddle to complete the reaction.
- Allow several minutes for the flocced solids to grow to enhance the separation and dewatering process.
- The separated water at the top can now be removed for reuse. The sludge will not go back into suspension and the solids will settle if disturbed leaving the filtered water at the surface.
- Removing and reusing as much filtered water as possible will reduce the amount of solids material to be disposed of and minimize water from leaching from the sludge during disposal.
- If there is remaining wastewater, sprinkle a small amount of **DiamaPro® Slurry-Sponge** onto the wet areas and mix well. This will absorb the additional water to prevent leaching.
- Remove gelled sludge from the recovery tank. It is ready for disposal per local, state, and federal regulations. If the process was successful, there should be no water leaching from the damp sludge.
- During auto-scrubbing, the turbulence of the process will mix the **Slurry-Splitter** with the slurry to hydrate and start the separation process.
- When the recovery tank is full, remove the top and mix well with a power drill and mixing paddle to complete the reaction.
- Immediately transfer the slurry in the recovery tank with the **DiamaPro® Slurry-Spout** to the **DiamaPro® Slurry Storage Vault** lined with a felt lined **DiamaPro® Slurry Sifter Bag**.
- Rinse out the storage tank with water removing any residual sludge and transfer it into the **Slurry Storage Vault**.
- While the wastewater separation continues in the **Slurry-Storage Vault**, the filtered water will seep through the **Slurry-Sifter Bag**.
- Pump out the filtered wastewater that is between the **Slurry Storage Vault** and **Slurry Sifter Bag** into a storage tank/barrel or back into the auto-scrubber to be used again during the wet grinding process.

## AUTO-SCRUBBER PROCESS

- Prior to auto-scrubbing the concrete slurry, pour the **PRIMER** mixture onto the floor and auto-scrub it up. This will coat the lines and recovery tank to allow for easier cleaning.
- Pour an additional 4 ounces (1/4 cup) per 20 gallons of recovery of **Slurry-Splitter** into the recovery tank.

20- gallon tank	4 ounces
40-gallon tank	8 ounces
60-gallon tank	12 ounces
80-gallon tank	16 ounces
- Vacuum as normal until the recovery tank is full.

## 6. Availability

**DiamaPro® Slurry-Splitter** is only available through **DiamaPro® Systems** Authorized Distributors and Trained Applicators. Packaged in 50-pound bags. Only **DiamaPro® Systems Trained-Applicators** are allowed to utilize the **DiamaPro® Slurry System**. For a list of Authorized Distributors or Applicators please contact **DiamaPro® Systems**.

## 7. Conditions of Sale / Limited Warranty

**DiamaPro® Systems** warrants that its products conform to the label descriptions, are free from manufacturing defects, and are fit for the ordinary purposes for which such goods are used. In as much as the use of **DiamaPro® Systems'** product by others



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## 8. Technical Services

The **Diamapro® Systems** office offers assistance with specifications, performance test data and field services.

## 9. Disclaimer

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