



Protection at the Speed of Light

Slurry-Splitter

Item No: DP-SS – 100 – 04

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, **Diamapro® 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

- Appearance Granular
- Color Gray

- Particle Size 30-200 mesh - 96.3%
- Bulk Density ~70 lbs./ft³
- Moisture Content 7-8%

PACKAGING

- 35 lbs. pails

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.

Diamapro® Slurry-Splitter should be pre-hydrated with water prior to use to allow for optimal performance.

5. Application Procedures and Instructions

SLURRY-SPLITTER PRE-HYDRATED PRIMER

- Add 4 ounces of **Diamapro® Slurry-Splitter** to 32 ounces of water and mix well to hydrate the **Diamapro® Slurry-Splitter**.
- Pour the mixed **PRIMER** into the recovery tank after each time the storage tank is emptied. **CAUTION: This mixture can be slippery when poured onto a smooth surface.**

PROCESS #1 – MANUAL (PUSH) SLURRY VACUUM

- Prior to vacuuming the concrete slurry, pour the **PRIMER** mixture into the slurry vacuum recovery tank.
- Vacuum as normal until the recovery tank is full.
- During vacuuming, the turbulence of the vacuum process will mix the **Primer** with the concrete slurry to start the separation process.



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- When the storage tank is full, remove the top and mix with a power drill and mixing paddle to complete the reaction.
- Allow several minutes for the flocked solids to grow to enhance the separation and dewatering process. Mix again for 1-2 minutes with a power drill to maximize the chemical reaction.
- 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 material to be disposed of and minimize water from leaching from the sludge during disposal.
- If there is remaining wastewater at the surface, 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.
- Vacuum as normal until the recovery tank is full.
- During auto-scrubbing, the turbulence of the process will mix the **Diamapro® Slurry-Splitter** with the slurry to hydrate and start the separation process.
- When the recovery tank is full, remove the top and transfer the slurry in the recovery tank with the **Diamapro® Slurry-Spout** to the **Diamapro® Slurry Storage Vault or Diamapro® Slurry-HWB** 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 felt lined **Slurry-Storage Vault or Diamapro® Slurry-HWB**.
- While the wastewater separation continues in the **Diamapro® Slurry-Storage Vault or Diamapro® Slurry-HWB**, the filtered water will seep through the **Slurry-Sifter Bag**.
- Pump out the filtered wastewater that is between the **Diamapro® Slurry Storage Vault or Diamapro® Slurry-HWB** and **Diamapro® Slurry-Sifter Bag** into a storage tank/barrel or back into the auto-scrubber to be used again during the wet grinding process.

PROCESS #2 - AUTO-SCRUBBER

- Prior to auto-scrubbing the concrete slurry, pour the **PRIMER** mixture into the recovery tank.
- Pour an additional 4 ounces (1/4 cup) per 20 gallons of recovery of **Diamapro® Slurry-Splitter** into the recovery tank.

20- gallon tank	PRIMER only
40-gallon tank	4 ounces
60-gallon tank	8 ounces
80-gallon tank	12 ounces

Note: If neither of the two described processes are used, job site testing for suitability using your process is recommended before starting the actual project.

6. Availability

Diamapro® Slurry-Splitter is only available through **Diamapro® Systems** Authorized Distributors and Trained Applicators. Packaged in 35-pound pails. Only **Diamapro® Systems Trained-Applicators** are allowed to utilize the **Diamapro® Slurry System**. For a list of



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Authorized Distributors or Applicators please contact
Diamapro® Systems.

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