TECHNICAL DATA SHEET

SHSIX5 – 2750

Product Description

SHSIX5-2750 is a proprietary formulation designed to be used for the removal of dry and hardened cement/concrete from most surfaces. SHSIX5-2750 is a ready-to-use blended product which will loosen and release hardened cement/concrete from surfaces without extraneous physical or mechanical efforts. The finished blend is a less invasive cleaner/dissolver. SHSIX5-2750 will easily remove concrete from all types of hard surfaces, primarily focused on tools and equipment.

Although this product may be diluted with fresh water, the effectiveness of this product will be associated to the quality of the dilution water, which will affect the efficiency of dry and hardened cement /concrete removal. The technical data provided in this document is based on the original intended use of the product at its ready-to-use concentration.

Applications

- Equipment – Mixers, Chutes
- Hand Tools – Floats, Trowels, Tamper Rollers, etc.
- Pumps and Hoses
- Mineral Deposits

Product Advantages

- Safer alternative to hydrochloric or muriatic
- Non-fuming
- Fast acting
- Does not etch or damage most surfaces other than concrete
- Efficient at penetrating and loosening concrete

Usage

- Can be used by ready mix concrete companies, pre-cast concrete companies, masons, concrete and paving contractors, tool and equipment rental yards, and concrete block manufacturers

- Less invasive formula contains no muriatic (HCl) or sulphuric acid

Limitations

The extent of the products ability to effectively loosen and release hardened cement/concrete from various surfaces will be in large part based upon the severity of the issue. Multiple cleanings may be necessary for cement/concrete surfaces that contain large amounts of deposits.

The surface must then be flushed with clean water and neutralized with a pH neutralizer such as ammonia, baking soda, or trisodium phosphate(TSP). Our conversion chart below will provide a recommended neutralization rate from a pH level of 3 with the addition of the most economical pH adjuster, sodium bicarbonate (baking soda).

Full Strength SHSIX5 - 2750 Neutralization Chart			
pH Neutralizer	**Initial pH of fluid**	**Desired pH**	**Pounds of pH Neutralizer required per Gallon of used fluids**
Ammonia	0.90	6.0 to 7.0	0.180 lbs./gal
Trisodium Phosphate	0.90	6.0 to 7.0	12.184 lbs./gal
Sodium Bicarbonate	0.90	6.0 to 7.0	3.864 lbs./gal

Partially Neutralized SHSIX5 - 2750 Neutralization Chart			
pH Neutralizer	**Initial pH of fluid**	**Desired pH**	**Pounds of pH Neutralizer required per Gallon of used fluids**
Ammonia	2.7	6.0 to 7.0	0.103 lbs./gal
Trisodium Phosphate	2.7	6.0 to 7.0	1.836 lbs./gal
Sodium Bicarbonate	2.7	6.0 to 7.0	0.835 lbs./gal

The above chart was created using data collected from a 3rd party laboratory using full strength VSIX – 2750 and VSIX – 2750 which was partially neutralized utilizing various concrete/cement samples to determine the volume of sodium bicarbonate, ammonia, trisodium phosphate needed to raise the pH of the used fluids to a pH of 6-7. It should be noted that the VSIX5-2750 has an ability to be effective up to a pH of 3.0.
While these results are intended to act as a recommended best practice range, it is best to check with local, state, and/or regulatory requirements for product disposal or run-offs.

During testing, it was also revealed that 1 gallon of VSIX5-2750, has a dissolve rate of 0.32 lbs of Portland Cement in a 24hr period.

Field Study

We supplied samples to an industrial concrete company to utilize as a solution for concrete buildup on Tamper Rollers.

Below you will see the results of the field study which was conducted.

Before and after pictures of a Tamper Roller after an extended soak.

- Tamper Rollers (Jitterbugs)

  - Used to eliminate air pockets in poured concrete
  - To push down coarse aggregate below the concrete surface
  - To provide conditions for smooth surface finish
  - Consolidate the concrete

Preparation & Installation

Ready-to-Use

1. Place Equipment, Hand Tools, Pumps, and/or Hoses into a large container.
2. Add enough VSIX5-2750 to completely submerge item intended for cleaning.
3. Wait at least 1hr (allow items to soak and react overnight or between shifts if acceptable).
4. Power wash equipment and parts to remove residual concrete.
   - Extremely heavy residuals may require two treatments.
   - Wear appropriate personal protection equipment.
   - As with all acid products, it should not be applied to hot surfaces.

Less to non-active solutions ranging in pH from 3 to 5 can be neutralized with water and/or a neutralizer

Physical Properties

Appearance:	
Form:	Liquid
Color:	Clear
Odor:	Mild
pH-value @ 25°C (77 °F):	0.37 to 2.37
Flash Point:	>93.3 °C (200 °F)
Density @ 25°C (77 °F):	1.04 to 1.08 g/cm³ (8.68 to 9.01 lbs./gal)
Solubility in:	
Water:	Soluble

Disclosure

●Acids are not good degreasers and cannot remove oil stains. ● Acids should not be used on marble or polished aluminum. ● Acids do not remove paint. However, stronger acids can penetrate through a defect in the paint and affect the integrity of the coating by attacking the metal. ● Whenever handling or dealing with acids, it is recommended to use proper safety precautions. ● Always wear safety glasses and chemical-resistant gloves and other appropriate safety equipment when using acids.

Technical Services

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