

**STONE STRENGTHENER:** Consolidates and strengthens porous stones such as QUARTZ, SANDSTONE, LIMESTONE, GRANITE, CONCRETE, BRICK, and PAVERS et al. by forming a silica-gel like binder (SiO<sub>2</sub>) that increases the substrate strength by filling voids, while also protecting from freeze/thaw and blocking efflorescence. Excellent for wet areas such as; water falls, fountains, pools, steam rooms, patios, driveways, countertops, showers and all interior/exterior construction applications.

#### ADVANTAGES:

- Pure Grade (>99%)
- Good penetration due to small molecular size
- Inorganic binder, UV stable
- No aesthetic change to the substrate
- Water vapor permeability is maintained
- Can be used as a cross linker
- Used for sol-gel processes in combination with other alkylsilanes such as: **Superseal, Superseal Plus, Superseal CE and Edge Darkener.**

#### DESCRIPTION:

Chemicals in STONE STRENGTHENER will react to moisture to form a silica-gel like binder and ethanol by product which evaporates. The siloxane formed is a very resistant inorganic binder to acid rain. Due to the low viscosity, it can reach up to 10-20cm penetration depth in very porous substrates.

#### TECHNICAL CHARACTERISTICS:

Test	Unit	Value
Appearance		Clear liquid
Active Ingredient (GC)	%	>99
Chloride Content	ppm	<10
Specific gravity at 25°C (77°F)	g/cm <sup>3</sup>	0.93
Flash point - (closed cup)	°C	54
	°F	>113
SiO <sub>2</sub> content	%	28.7
Viscosity	mm <sup>2</sup> /s	0.72

#### APPLICATION:

**Stone Strengthener** can be used for both residential and commercial applications, from countertops to building facades and monuments. The size, location and type of stone dictates the appropriate method; spraying, brushing, dipping or in the case of statues, a fabric soak.

Stone Strengthener is best used in conjunction with a final application of an IMPREGNATOR/SEAER to fully protect the surface of the stone from staining, water ingress, and dirt infiltration. The stone will be hydrophobic.

SUGGESTED PRODUCTS ARE: Superseal PLUS, Superseal or Superseal CE (for color Enhancing) and Edge Darkener. Please see Technical Bulletins for proper product identification and usage.

#### Brushing, Spraying, Dipping, Fabric Soaking:

1. The substrate should be dry and preferably free of dirt.
2. Product should be applied between 5°C (41°F) and 20°C (68°F) and relative humidity not below 40%.
3. During the first 2-3 days after the treatment, the substrate should be protected against rain and direct sunlight.
4. Brushing is recommended as the best method for complete penetration into the pores of the stone.
5. Brush, spray, dip 2 to 3 coats of product on to the stone using a cross patch while brushing, spraying. Avoid "puddling".
6. When the product has been fully absorbed into the stone, wait 30 minutes before applying one of our appropriate finishing impregnators/sealers based on the porosity of the stone (see above).
7. When applying a final product, use the same method as above and avoid puddling.
8. Please see appropriate Technical Bulletin(s) for more detailed application instructions.
9. If protection of the substrate against water ingress is desired, Superseal or Superseal CE should be applied after the product has fully reacted.
10. The reaction should be complete after 2-4 weeks

#### Suggestion for Use:

Not for use on manmade quartz.

Use on Natural Stone ONLY.

#### Safety procedures:

Always consult [Material Safety Data Sheets](#) issued to follow your national laws concerning safety in the working place.

- Wear chemical goggles and NIOSH approved respirator. Wear proper protective clothing and gloves to prevent direct contact of resins.
- May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin.
- For professional use only.
- Keep out of reach of children.

#### Packing:

The container is composed of Polyethylene High Density (HDPE). After use, comply with the local and national regulations currently in force regarding recycling.