

**Specialty Lithium Silicates
Manufactured by**

**Dr. Khan Industrial
Consultants Pvt. Ltd**



Clear Advantage

| | Nano LS-80 |
|--|---|
| Solids wt % | 23 |
| SiO₂:LiO₂ Wt Ratio | 8.2-8.4 |
| SiO₂:LiO₂ Molar Ratio | 4.1-4.2 |
| SiO₂ wt % | 20.5 |
| LiO₂ wt % | 2.5 |
| pH | 11.3 |
| Sp Gravity | 1.2 |
| Viscosity | 20 cps |
| Appearance | Clear Transparent Liquid |

➤ This deeply penetrating Nano Lithium Silicate solution reacts with free calcium inside concrete to form insoluble calcium silicate. This process seals the extra voidage in concrete and densifies it with silica. This densification leads to numerous advantages like.

✓ Concrete Hardening, strengthening, increase in abrasion and corrosion resistance.

✓ Pore Sealing but a breathable concrete.

✓ It is a permanent seal. Will not peel or flake off.

✓ The treatment is non-expansive, it will not cause floor to absorb water or sweat.

✓ Waterproofing, Weatherproofing and protection from heavy rains, salty water etc.

✓ Dust-proofing- A very important property very much desirable in architectural concrete.

✓ Stain Resistance

✓ The concrete can be polished to achieve desired gloss and sheen.

➤ Can be used on all types of concrete surfaces, both new and concrete surfaces can be treated. It can be applied to parking structures, ware houses, industrial floors, residential and commercial mall floors.

➤ Contains no solvents or harmful chemicals. Zero VOC.

Preparation & Application:

1. One should not apply Nano LS-80 on surfaces which are dirty, greasy, oily or have standing water. Remove all foreign materials including bond breakers, curing agents, surface oils, dust, construction laitance, drywall residues, etc. using the appropriate mechanical cleaning methods.
2. Nano LS-80 is a concentrated solutions. Dilute 2 parts of Nano LS-80 with 3 parts of pure water.
3. Always test each surface for suitability for desired results.
4. During hot, dry weather conditions, lightly pre-wet the concrete surface with fresh water. Proceed with application as soon as the concrete surface begins drying and is free of water puddle.
5. Using low pressure, spray apply a wet saturating coat of Nano LS-80. Treated surfaces must retain a glossy, wet sheen for 20 minutes following initial application. If the treated surface begins to dry in less than 20 minutes, reapply as necessary to restore the wet sheen.
6. After allowing the treatment to penetrate for 20 minutes, use a stiff broom to redistribute any excess material.
7. Allow the treatment to penetrate and dry. Typically 1 - 2 hours.
8. For maximum protection of highly porous surfaces, repeat steps 5 through 7.
9. Typical Coverage is 100-120 sqft per liter per coat.

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