

# HYDROSKY product instruction manual

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## HYDROSKY SKY-SP

The liquid glass of the main component is concrete, mortar, natural, artificial stone, block, brick, tile, railroad deck, bridge foundation, RC retaining wall, tunnel, headwork, etc. Preventing degradation of concrete structures, eposence treatment, Processing, moisture-proof and anti-fouling use.

### Inorganic penetration / reactivity, degradation / water absorption inhibitor

Sodium silicate (liquid glass) in SKY-SP shows high alkalinity by hydrolysis after penetrating the base material, the dried ingredients are protected from oil and grease, after drying enough, it is a water-based paint of a top coat agent, an oil paint, Asphalt etc. adhesion is improved and adhesion is increased. Especially water resistance and weather resistance are improved by adding metal oxide (lithium silicate).

When breaking or cracking in the surface part and the middle part By the component of HYDROSKY SKY - SP reacts with moisture and grows in gel form, it prevents moisture from entering the building.

When it is applied to concrete and mortar surface, it permeates deeply into capillary voids and chemically reacts with free alkali inside. It also chemically reacts with calcium salt or the like dissolved in moisture moving in the aggregate to prevent or deter efflorescence.

Therefore, it gives alkalinity to neutralized concrete. The produced hydrophobic crystal has a function of densifying the surface layer portion and strengthening it further. In addition, it is possible to apply any organic organic type on the coated surface.

### General properties

Principal component: Alkali metal salt + silicic acid compound  
+ highly reactive inorganic catalyst

One-pack type

Colorless transparent or translucent liquid

specific gravity: 1.03 to 1.15 (20°C)

Viscosity: 3mPa·s or less

Solvent: water

PH: 10.0 to 12.0 (strongly alkaline)

Painting standard

Both newly constructed and repair work is performed to clean the coated surface.

Other than the construction surface, where there is a risk of scattering, basically curing.

Especially to the extent that it does not adhere to glass, aluminum, clothes etc etc.

The longer the dry curing, the higher the strength.

The general coating weight is 0.12 - 0.25 kg / m<sup>2</sup>, but this is not the case for waterproofing purposes. Apply with roller, brush, sprayer. Even if grease, oil, part of paint etc. are stuck on the construction surface, it can be applied if there is no problem in function.

Related law

Dangerous goods indication: Not applicable

Solvent category: inorganic solvent

Hazardous Substance Display: Not Applicable

Construction precautions

1. It is a silicate type so wet the base before construction.
2. The part where Hydro-Sky has adhered besides the construction site is immediately Please wipe off with wet cloth etc.
3. If the construction surface is above 50 °C, rinse with plenty of water and cool Please apply from the shade part.
4. In the winter, if construction time is room temperature even if it becomes 0 °C or less at night, please perform forced drying immediately after construction.
5. It is possible to remove the oil, grease, release agent etc. on the coated surface If not, please let me permeate from its surroundings.
6. Application method is not particularly selected. Impregnate the framework adequately Is important.
7. Wipe off the surplus and residue after coating with a cloth that you washed well. If wiping is inadequate, white spots may appear depending on the material. Please use up quickly after opening.
8. As soon as it is opened, it is used up as soon as it is used up, and the residual chemical reacts with the air in the container. In case of short-term storage, transfer it to a small container so as not to mix moisture, dust, etc., seal the inside and seal it Keep it out of reach of children. Also please do not put back the used residue especially to the original container.
9. In the unlikely event, wash with a large amount of water and consult a doctor if you get into your eyes.
10. Do not store or install under 10.0 °C.
11. Do not use frozen materials.

### About JAI AF ★ ★ ★ ★

The indication of "Forster" is paint, interior material, building material, "It is the obligation to indicate newly to indicate performance classification of formaldehyde emission quantity. F☆☆☆☆ (F Forster) is a mark indicating formaldehyde grade that is obliged to be displayed on JIS products produced at JIS factory. Hydro Sky is not a paint, it is a deterioration protection and waterproof agent of aqueous inorganic compound. 1 + 5 kinds of formaldehyde, toluene, xylene, ethylbenzene, styrene for termite control agent designated as harmful chemical substance and for sick house syndrome are designated as harmful regulated drugs.

Therefore, it does not fall under F☆☆☆☆ because formaldehyde which is an organic compound is not included.

**About VOC** VOC stands for Volatile Organic Compounds and refers to volatile organic compounds Says. WHO is defined as a generic term for substances with boiling point of 50 °C to 260 °C among organic compounds present in the atmosphere in gas.

GHS label element  
Pictogram or symbol:

