

Hi Ureseal 5000 S

Hi Ureseal 5000 S can fulfill US federal standards(FS SS-S-200E) as poly sulfide sealant. **Hi Ureseal 5000 S** has good oil Resistance and excellent elasticity for airport runway, sealant, joint, two-component, jet blast resistant, cold applied, for portland concrete pavement with good durability and mechanical property. It's fast curing type

CHARACTERISTICS

- Room temperature curing type and convenient to use
- Excellent durability and weather resistance
- Good oil Resistance and excellent elasticity
- Good Liquidity and stable liquid reactive carrying
- Fast curing type
- Self-Leveling Type

RECOMMENDED USE

- Protecting joint of concrete structures
- Used for joint of airport runway, aircraft stand
- Sealant for building and engineering public works
- Out door works and sealant for express way
- LNG Tank, Sealant for nuclear power plant

PHYSICAL PROPERTIES

- Colors: Gray
- Specific gravity (Mixture) : 1.35 ± 0.05
- Pot Life: 1~3 hours (25℃)
- Complete curing time: Within 12 hours (25℃)

Test item	Unit	Result
Viscosity(Base Resin,23℃)	mPa.s	Less than 150,000
Viscosity(Curing agent, 23℃)	mpa.s	Less than 150,000
Tack free time	hrs	Less than 12
Accelerated aging(Base)	-	no defects
Accelerated aging (Curing agent)	-	no defects
Self leveling(Mold A)	mm	Less than 3.2
Self leveling(Mold B)	mm	Less than 1.6
Change in mass by fuel immersion(apparence)	-	no defects
Change in mass by fuel immersion (Change in dry mass)	%	Less than 2
Change in Volume on exposure to elevated temperature	%	Less than 5
Resilience(unaged:recovery)	%	More 75
Resilience (unaged:initial penetration)	mm	0.5~2.0
Resilience(aged:recovery)	%	More 75
Resilience (aged:initial penetration)	mm	0.5~2.0

Artificial weathering(Appearance)	-	no defects
Artificial weathering (change in volume)	%	Less than 5
Attachment to concrete (Non immersed)	-	no defects
Attachment to concrete (fuel immersed)	-	no defects
Attachment to concrete (water immersed)	-	no defects
Flame resistance	-	no defects
Flowing ability	-	no defects

- Test method : FS SS-S-200E

THINNER

- Not Required

MIXING RATIO

- A : B = 5 : 1 (by weight)

PACKING UNIT

- Main Agent (part A): 20kg
- Hardener (part B): 4kg

STORAGE CONDITIONS

- Store it in Room Temperature without direct light
- Temperature: 0~43℃
- Relative Humidity: 0~90% (sealed condition)
- Seal up remained product after use

SHELF LIFE

- 12 months (at room temperature)

** This document is exact, but it can be changed for quality improvement without notice. For more detailed information, contact to Technical Center of our company.*

Hi Ureseal 5000 S

SCOPE

This Direction for use applies to **Hi Ureseal 5000 S**, This is a standard guide. If there are anything different from the specification at the workplace, please follow the specification.

WORKING CONDITION

- Painting Tools: power mixer, injection, masking tapes and so on.
- Pot Life: 1~3 hours (25°C)
- Dry through: 12 hours (25°C)
- Time to recoat: 1~2 days (25°C)

Surface temperature	Time to recoat	Dry through
10°C	24 hours	5 days
15°C	16 hours	2 days
25°C	12 hours	1 day
32°C	6 hours	16 hours

- Application Conditions

	Material(°C)	Surface	Ambient	Humidity(%)
min	5	5	5	0
nor	20~25	20~25	20~25	Below 80
max	32	32	35	Up to 85

- * These can be different under the working environments.
- * Do not apply unless surface is 3°C above the dew point.

SURFACE TREATMENT

- Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
- Previously painted surfaces should be scraped clean of flaky or peeling paint.
- Needed the proper preparation and recommended a primer.
- The cure time of concrete.

Temperature (°C)	Drying times (days)
24	More than 28
21	30~
10	40~
7	60~

- Remove any oil or grease from surface to be coated with clean rags soaked in Jeong Seok Thinner #001, #003 or toluol in accordance with SSPC-SP-1.

DIRECTIONS FOR WORK

1. Priming

- Surfaces must be clean and dry.
- Porous concrete may require a primer to achieve a satisfactory surface for painting.
- This will improve hydrophobic surface properties.

2. Application **Hi Ureseal 5000 S**

- The optimum time to topcoat is when the primer is “touch-tacky”.
- Use moderate rake and trowel.
- If those maximum recoat times have been exceeded, the surface must be abraded by sweep blasting or sanding prior to the application of additional coats.

PRECAUTIONS

- Avoid painting in a rainy or humid day (over 85%) and under less than 5°C as it can make poor paint film (Cracks or bad adhesion in the coating layers).
- MSDS is recommended for more information.
- Do not use it under the direct rays of sun in summer.
- Personnel protective clothing should include goggles, rubber gloves, and full length clothing.
- In case of skin contact, remove contaminated clothing and wash affected area thoroughly with soap and water for a minimum of 15 minutes. Then contact a physician.
- Please treat it with the paint 28 days after the cement mortar got the final treatment and it is below ph 9 and 8% moisture content.
- Keep adequate ventilation during the application.
- Keep it away from ignition.
- Make sure that the paint should not be kept for a long time after opening and the remaining paint should be sealed after use.
- Do not apply when air or surface temperature is below 10°C or when rain or high humidity is imminent.

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