

NATURAL STONE NON-STAINING SEALANT

Description

Natural Stone Non-Staining Sealant is a non-contaminated sealant is a 100% silicone sealant, developed as a sealant dedicated to various internal and external joints, has excellent elasticity and weather resistance, and is an exterior non-contaminated sealant that can effectively handle shrinkage and expansion with a motion tolerance of ± 30 .

Technical Data

| PROPERTY | VALUE |
|--------------------------|------------------------------|
| Main ingredient: | Silicone Polymer |
| Curing System: | Neutral cure |
| Shape: | Soft paste |
| Tack Free Time: | within 10 min |
| Specific Gravity: | 1.38 \pm 0.1 |
| Hardness Shore A: | 20 ~ 30 (After 7 days) |
| Tensile at Break: | 1.0 \pm 0.2 ASTM D412 |
| Elongation: | Min. 400% ASTM D412 |
| Shelf Life: | 12 Month |

Note: The above physical properties are representative values, not characteristic values. The physical properties of the above products were measured under the laboratory conditions specified above, and may vary depending on the conditions at the work site, so please use them for reference.

Key Performance Properties

- Can be used on both vertical and horizontal surfaces.
- With high elongation and resilience, it has good strength to withstand repeated movements caused by temperature changes.
- Excellent workability due to good mixing of main material and hardener.

Application

1. Stone, ceramic panels (non-polluting joints)
2. Aluminum composite panel, pan panel joint
3. Aluminum curtain wall joint.
4. Exterior Joints in Architecture
5. Window Peripheral Joint

Application Direction

1. Adhesive surface treatment

- a. Remove foreign substances such as dust, oil, moisture, etc. that interfere with the adhesion of the sealant in the construction area.
- b. Wipe the surface of the material to be stuck clean with a 2-rag-wipe method twice using a lump.
- c. For porous materials, after cleaning with grinding and cutting blasting, remove residual foreign substances using clean compressed air or a vacuum cleaner.

Be sure to apply in a clean and dry surface condition.



2. Insert backup materials

- a. Use a polyethylene foam or polyurethane foam that is 20-30% larger in diameter than the joint width, does not absorb water, and has elasticity.
- b. Be careful not to scratch the surface when inserting the backup material, and adjust the sealant to have an appropriate shape coefficient (width/depth).
- c. Use of damaged backup materials can cause air bubbles on the sealant surface and internal air bubbles, so be careful.
- d. You do not need to use backup materials when applying Natural Stone Sealant, so please consult technical department if it is necessary for construction.

3. Working with masking tape

- a. When tooling the sealing material (pressing operation), use construction masking tape to prevent contamination around the joint.
- b. Use masking tape only for the parts you work on the same day.

4. Primer treatment

- a. Be sure to check the adhesion between the adhesive and the sealing material in advance before starting the sealing work.
- b. It is recommendable to work with a brush for porous materials such as stone and a cloth for non-porous materials such as metals to evenly apply primer to prevent gaps or air bubbles from occurring.
- c. Please discuss with our technical department whether primer is applied or not and the type of primer.
- d. Make sure to small amount of primer in a small container. (Keep the previous container sealed.)

5. Sealant Filling

- a. Sealing material filling should start at the intersection or corner and work without voids, and the finish should be in a position to avoid the intersection or corner.
- b. Cut the sealing material nozzle at an angle of about 45° and work by pushing it well to the bottom of the work area.
- c. After applying the primer, fill the sealant as soon as possible after the designated drying time elapses.

6. Sealant press operation (tooling operation)

- a. After the caulking operation, immediately carry out the sealant before it hardens.
- b. Use a spatula (Hera) to press the sealant to remove voids and ensure good adhesion to the surface to be stuck.

7. Removing masking tape

- a. Remove the masking tape before curing the sealing material surface and make the area around the sealing material uniform and clean.

8. Cleaning

- a. When cleaning the surrounding area after completion of work, be careful not to affect the attachment and sealant.

9. Curing

- a. Protect against dust or other contamination during curing, avoid contact until complete curing, and be careful not to impact physical impact.

Storage and packaging

Handling Precautions

- Keep it out of the reach of children, and be careful not to eat it or inhale steam or contact the skin. It may cause headaches, dizziness, and dermatitis.
- Do not store or work at high temperatures or near fire.
- It is necessary to ventilate sufficiently during work and drying in an enclosed place.
- Product defects may occur when used other than for use.
- Be careful not to impact the container.
- Avoid direct sunlight and store in a dry, cool, dark rock (5-25°C) with less moisture to prevent deterioration of the contents during transportation and storage.
- Be sure to keep the container closed and the remaining amount stored the same way after use.(If it is mixed with moisture, it will be hardened and can't use.)
For sealant to express proper properties, avoid working on rainy days, high humidity days (about 85% or more), and low-temperature days (below 5°C)(Please consult our technical department about the work as it may cause cracks, poor adhesion, etc.)

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- The surface of the sealant product may be yellowed by ambient contamination or environmental effects. (such as prolonged exposure to ultraviolet rays).
- Do not use adhesive material below 5°C or above 50°C.
- The curing speed of this product may vary depending on the application amount and construction environment conditions. e.g., Sealant seasonal curing period (based on thickness 6 mm)
- Based on the area of contact with the material, it is necessary to fill the sealant with a thickness of 6mm or more.
- If the surface is contaminated, the adhesion may decrease, so wipe the surface with a cleaning solvent (IPA, etc.) before using it.
- Wear gloves and protective glasses when handling.
- Please keep the designated drying time as it has a critical impact on SIMSEAL non-staining silicone sealant performance.
- Do not mix this product with other products (solvents, diluents, etc.).
- In unsealed structures on the back, inflating the sealant surface and air bubbles may occur due to joint movement, external air inflow, etc., so be sure to use it in airtight structures. during initial sealant curing after construction, large joint movements may cause surface wrinkles or cracks, so construction should be carried out during periods of low daily temperature difference without severe material contraction and expansion.
- Wash exposed skin thoroughly after completion of work.
- Be careful when cleaning silicone sealant products, including the SIMSEAL non-staining silicone sealant, as continuous physical friction may cause them to come off during washing because of external contaminants.
- When disposing of this product, dispose of it through a waste disposal company designated by the Ministry of Environment.
- This product is a chemical product, so please use it within the expiration date as it may deteriorate if stored for a long time.

Limitation

- Do not use it where specialized Spec products are required, such as for making double-layer glass, composite panels, SSG construction, fishing ports, and continuous flooding.
- Materials that can inhibit adhesion and cause discoloration by leaking such as oil, plasticizer, tar, wax, other solvents, etc.
- A closed space with no airflow.
- The surface is wet (water content of 3% or more)
- When the temperature of the adhesive surface is less than 5°C or higher than 50°C.
- Areas where continuous inundation and burial.
- Areas are expected where contact with food is.
- Areas where the high pressure persists permanently.
- An internal fire section.
- Joints that are expected to wear due to physical friction.
- Areas where paint is required on the sealant.
- Non-polluting fluorine, self-purifying glass.
- Polycarbonate plastic carrying parts.
- When using coated glass, it is necessary to use it after the adhesion test between coated glass and sealant.

Packaging

300mL Cartridge -
Available in cartons of 20
Product packed in Australia

Caution

Causes serious eye irritation. Wash hands thoroughly after handling. Wear eye protection. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists: Get medical advice/attention. Keep out of reach of children. Contains aminosilane. May produce an allergic reaction. Safety data sheet available on request. For further health and safety information, consult the latest safety data sheet.

Legal Notes

Simseal® has made every effort to ensure accurate information but cannot be held liable for any losses or damages arising from its use, due to uncontrollable variations in processing and workmanship. Users should verify the product's suitability through their own testing.



WHITE



CLEAR



BLACK