

# Dexerials

## Industrial-Use UV Curable Sealant UVS-1000C

### Instruction Manual

Keep this Instruction Manual in a safe place for easy reference.



This product can be used for emergency repair of oil leaks in electrical equipment, etc. When the sealant is applied and UV (ultraviolet) is irradiated, the sealant cures quickly. Even in the event the oil cannot be completely wiped off, the product can be applied to oil leakage parts by the sealant blending with the oil.

#### • Adhesion to various materials

<b>Good</b>	Stainless steel, cast iron, rigid PVC, acrylic (PMMA), glass, galvanized steel, carbon steel, brass, aluminum
<b>Poor</b>	Olefin resins (PP, PE)
<b>Bad</b>	Silicone resins, fluorine resins

\*The surface of materials above is prepared with #1000 sanding.

#### • Recommended curing conditions





<b>Coating thickness</b>	1–3 mm (per layer)
<b>Irradiation distance</b>	Within 1 cm
<b>Irradiation time</b>	1 second or more per irradiation area

\*When using the recommended UV light

## Safety Precautions

Read the following precautions carefully before using this product to ensure its correct and safe use.

#### • Key indications

 <b>WARNING</b>	The signal word that indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
 <b>CAUTION</b>	The signal word that indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
	Indicates a prohibited (must not be done) item.
	Indicates a compulsory (must do) item.

### **WARNING**

#### **Wear appropriate protective equipment (such as protective gloves, protective glasses, and face shield) when working.**





This sealant may cause eye irritation or skin irritation. Do not get the product in your eyes or on your skin. Avoid inhaling vapors emitted from the product. In the unlikely event the product gets in your eye(s), wash carefully with water for several minutes and seek treatment from a medical physician.

If the product gets on your skin, wash immediately with plenty of soap and water.

#### **Keep the product away from ignition sources such as heat, sparks, open flames, and high temperatures.**

Failure to do so may cause a fire.

### **CAUTION**

-  **Use this product in a well-ventilated place.**  
Failure to do so may damage the health of you or others around you.
-  **As the components of the sealant are volatile during UV curing, do not bring the product close to your face or inhale it while it is curing.**  
Doing so may damage your health.
-  **Do not look directly at the light source when the UV light is on.**  
Doing so may hurt your eyes. Make sure to wear UV-cut glasses or goggles while working. Read the UV light instruction manual, especially the precautions, thoroughly before use.
-  **If the sealant gets on your clothes, immediately take off your clothes or remove the sealant from them.**  
The sealant immediately after curing becomes hot. If any sealant attached to clothes or gloves is exposed to UV, it may be cured and cause burns.

## Contents

- UVS-1000C
- Instruction Manual (this manual)

## Handling This Product

### 1. During transportation & storage

- Store the product at room temperature (5 to 35°C) and away from direct sunlight.
- Close the lid tightly, and transport and store the product upright.

### 2. When working

- The product will cure when exposed to sunlight, and so open it in a place where it is shielded from sunlight.
- Close the lid after each use. Failure to do so may cause foreign matter to mix inside or unintentional curing (due to sunlight or lighting that contains UV such as fluorescent lights).
- Use appropriate protective equipment when applying or curing this product.
  - Protective gloves (latex gloves, etc.)
  - Protective glasses (ones that protect against splashing liquid and UV)
  - Face shield and mask

### 3. After use & when discarding

- When discarding of the remaining sealant, spread it on a non-combustible material such as a metal plate and cure it with UV before discarding of it properly.
- For containers that will no longer be used, irradiate the inside surface of the container with UV to cure the remaining sealant. Properly dispose of the container separately from solvent-containing waste.

### 4. Disclaimer

- Before using the product, we ask that you make sure to carefully consider whether or not this product complies with your intended use, application, and conditions, and to follow the instructions in the Instruction Manual and Work Instructions. Dexerials Corporation will not be liable for any damages resulting from non-compliance with the prescribed usage application.
- This product may not exhibit its full performance depending on the state and environment of the application location and the state of application sites, etc. and therefore we do not guarantee any specific sealing results.

### After application

For application tools such as coating brushes, immediately after use, use a paper towel and the like to wipe off as much of the sealant as possible. For the cleaning liquid, use hexane or alcohol solvent. (Example: Brake parts cleaner)  
Cure the sealant attached to the paper towel with UV before discarding. Make sure to dispose of it separately from solvent-containing waste.

## Tools Needed for Work

Use tools that are suitable for your work environment and application sites. The following are examples of tools used for the work.

Work Process	Tool	Remarks	Required
Surface preparation	Sandpaper, wire scratch brush, scraper, belt sander, small hand grinder, etc.	These tools remove rust and paint. Use the right tool to suit the paint and the area that needs to undergo surface preparation.	✓
Leak detection	Oil leakage detection agent, flaw detection agent	These tools detect parts that are suffering from oil leakage.	
Light-shielding	Light-shielding tarp (thick blue tarp, etc.)	This tool shields against sunlight (direct and reflected) when working outdoors.	
Cleaning & degreasing	Brake parts cleaner, paper towel <sup>*1</sup>	These tools remove water, sanding sludge, and oil.	✓
Applying	Coating brush, spatula, brush, toothbrush	Prepare the right size tool that suits the application parts.	✓
	Light-shielding syringe, tube <sup>*2</sup>	These tools are for applying the product to narrow parts and areas where it is difficult to carry out the work.	
	Inspection mirror, hand mirror	Use these tools to check the rear and deep crevices, etc. that are difficult to see. For areas that are difficult to irradiate with UV, irradiate by reflecting UV on to a mirror.	
Curing	UV light <sup>*3</sup>	Use the recommended UV flashlight. For recommended products, please contact the vendor of the sealant.	✓
General (safety)	Protective gloves, protective glasses <sup>*4</sup> , face shield, mask, etc.	Wear glasses, a mask, gloves, etc. to prevent injuries due to splashing sealant.	✓

\*1 Use paper towel because some waste cloths may generate stray threads and may struggle to wipe off the oil.

**\*2 Precautions when using a syringe**

If you do not have a light-shielding syringe, wrap the barrel of the syringe with light-shielding tape (such as black vinyl tape) to block UV.

Attach a black tube (fine coating is acceptable) cut to about 5 cm to the tip of the syringe.

When filling the syringe with sealant, do so in a work environment that is shielded from UV.

Draw up the sealant in the container with the tip of the syringe.

\*3 We recommend using a UV flashlight for which its performance has already been confirmed.

\*4 One that protects against splashing liquid and UV.

### CAUTION



**When using tools, thoroughly read the instruction manual of the corresponding tools, especially the warnings and cautions, and fully understand the contents before engaging in work.**

Failure to do so may cause a malfunction or injury.

## Specifications

Model No.	UVS-1000C
Type	Single component UV curable acrylic
Properties (before /after curing)	White viscous liquid / white solid
Storage period (guideline)	2 years after production (unopened and stored at room temperature in a dark place)
Quantity	200 g
Container	Lid: PP, Body: PE

## Contact information

For any questions or inquiries regarding this product or the SDS (Safety Data Sheet), please contact the distributor from whom you purchased the product or the point of contact below.



### Dexerials Corporation

iCOP Company, Business Innovation Division

Sales representative Tel: 03-5435-3946

Online inquiries: <https://www.dexerials.jp/en/contact/>

Gate City Osaki, East Tower 8F, 1-11-2 Osaki, Shinagawa-ku, Tokyo 141-0032, Japan