

Moldefeat

S-3T

APPLICATION MANUAL

For indoor/ Floor area 20m²



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1. Location of coating application

Location	Item
ROOM	Ceiling
	Wall
	Kitchen cabinet
	Drawer (Outside)

2. Usage of coating application

Product Type	Method	Usage(/1 m ²)
S-3T	Roller, Brush Airless spray or Automatic spray	20g±5

NOTE : Measure the formaldehyde concentration before starting work and use the calculation sheet to calculate the amount to apply.

3. Equipment for coating application (Referenced)

3-1. List of Equipment

- | | |
|--|--|
| (1) Bucket(1~2pcs) | (11) Protective gloves |
| (2) Wiping cloth (4~5pcs) | (12) Protective goggles |
| Sponge for washingMasking sheet for floor size of the coating area | (13) Protective mask (Disposal& Professional type) |
| (6) Masking tapesDetergent (oil-free) | (14) Roller (5-6pcs) or spray |
| References : Alkaline cleaner, detergent | (15) Plate for coating agent (More than 2pcs) |
| (8) Broom & Dustpan | (16) Measurement kid for VOC gas |
| (9) Metal spatula | |
| (10) Garbage bag | |

4. Method of coating application

4-1. Basic application process

No	WORK	CONTENTS
1	Preparing for coating application	Prepare for equipment, survey the location
2	Measurement of VOC, Photoshoot in the room	Inspection of initial VOC level
3	Cleaning work for the coating area	Remove tobacco dirt, oil dirt, and other all dirt
4	Masking for floor and wall	Protection from liquid flows at the ceiling coating
5	Coating application / Ceiling	Apply S-3T to ceilings
6	Coating application / Wall and other areas	Apply S-3T
7	Drying	Drying
8	Measurement of VOC, Photoshoot in the room	Inspection of VOC level after coating

4-2. Caution for before coating

4-2-1. As for cleaning the coating area, please use a neutral or alkaline detergent that is free of oil.

4-2-2. After cleaning with detergent, please wipe away all surfaces with a wet towel or cloth. If detergent remains on surfaces, it may cause cloudiness on the coated surface.

4-2-3. Please remove all detergent with a wet towel or cloth.

4-2-4. Please remove all dirt such as tobacco dirt, oil dirt, and other to prevent peeling.

4-2-5. Once you take out the coating liquid from the container, DO NOT return it. Please use them up all.

4-3. Cleaning and other treatments for the coated surface




For coating application, you need to confirm all coating areas (items) and equipment very carefully. Please refer to the following main cautions.

Coating surface/Items	Cleaning / Treatment
For tough dirt and stain	After normal cleaning, please clean the part of the dirt area using chemicals.
	On the plastic surface, execute the test cleaning on the small area with chemicals and abrasive first. After that, clean the surface with a suitable detergent.
	As for uncleanable areas, such as wallpaper, please get permission from your client for the coating application.

Coating surface/Items	Cleaning / Treatment
Wet & Moist surface	Remove moisture completely with a dry cloth or a hair dryer
Coating for Teflon. (Low friction surface)	Unable to conduct coating application.
Water repellency surface	Unable to conduct coating application.
Glass, Stone material, Luster(shiny) materials, non-absorbed materials.	Unable to conduct coating application.
For water-absorbable surfaces (Bricks, Concrete, Blocks)	If possible, please use basecoat "OP-200" that can prevent the coating surface from absorbing water.
For elastic and soft materials	Too much coating will damage to coating film. A small quantity is suitable. Or do no coating.
Under high humidity environment	Before coating, need to confirm there is no dew on surfaces. If the humidity is over 95%, please stop the coating application. (Especially, in rainy or typhoon seasons.)
Discolor able materials	Please conduct a trial coating a small area to confirm whether it is discolored or not. Lights also lead to discoloration, so please check by illuminating it as well.
NOTE: Weather and Seasons	Under 5 deg C temperature, drying time will be quite longer than normal. Also, please DO NOT use the product wherever the agent may be iced.
	During the rainy season, you need to control humidity properly in the working space. Weather news will be also helpful in choosing the best day for coating application.
	If the temperature of the coating surface is higher, the coating agents will make stains on the surface. Therefore, please cool down the temperature before coating.

4-4. Measurement of VOC level (Before and after coating application)

4-4-1. Measurement of unit (reference)

Item	Model
	Measuring Device for Formaldehyde HFX205
	Gastech, Semi-auto measuring instrument with gas detective tube for Formaldehyde.
	Gastech, hand motion measuring instrument with gas detective tube for Formaldehyde.

4-4-2. How to use the measurement of formaldehyde gas density in a room.

See each product manual.

4-5. Cleaning

4-5-1. Cleaning

- (1) Please clean walls, ceilings, furniture, and instruments with cleaning tools such as vacuum cleaners.
- (2) When oil dirt and tobacco dirt remain on the surface, please remove all dirt with an alkaline detergent.
- (3) Oil dirt must be removed completely.

NOTE: When you clean wooden areas and wooden parts, there might be discoloration and peeling.
Please confirm surface condition before coating application.

4-6. Coating Application

4-6-1. 【Important】 Handle with care

- (1) Roller coating is the most suitable coating method for deodorant coating agents. Please use a roller to execute the coating application as much as you can.
- (2) Too much quantity of liquid will cause liquid flow, please execute the coating application by dividing several times and be careful of the surface condition.
- (3) Once the liquid is from the container, please use it up. Do not return it to avoid contamination.
- (4) When you apply any special materials or the component of the material is not clear, please conduct trial coating or test coating.
- (5) Under the coating application at 20 deg C, please cover all coated areas to prevent them from getting

wet for 2 hours. If the water drops on the surface accidentally, please remove the water softly with a cloth.

- (6) Please confirm that the lid of the container is closed properly and place it in a cool and dark place.
- (7) Please DO NOT store it in a car because it is the cause of deterioration. Please store the product in a dark and good ventilation area.
- (8) If you place the product under the sun, or if you keep open the container, the shelf life will be shorter than normal.
- (9) When you store the product for a long term or the remaining liquid is too much less in the container (Too much air in the container), the liquid gets dried, and it'll be at risk of becoming powder. If the liquid becomes powder, please DO NOT use it.

4-6-2. Masking for surface coating

- (1) Cover the floor with a masking sheet and stick the sheet with tape.



- (2) For wall areas, cover the masking sheet from top to bottom.
- (3) Please cover all fixtures and furniture that should not be coated.



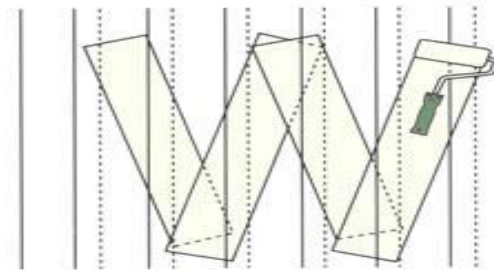
4-6-3. Method of Roller coating

- (1) Coating application process

Location	Necessary amount (For 20m2 floor area)
1. Ceiling	Over 0.3kg
2. Wall	Over 0.5 kg
3. Fixture/Furniture	Depending on the surface area

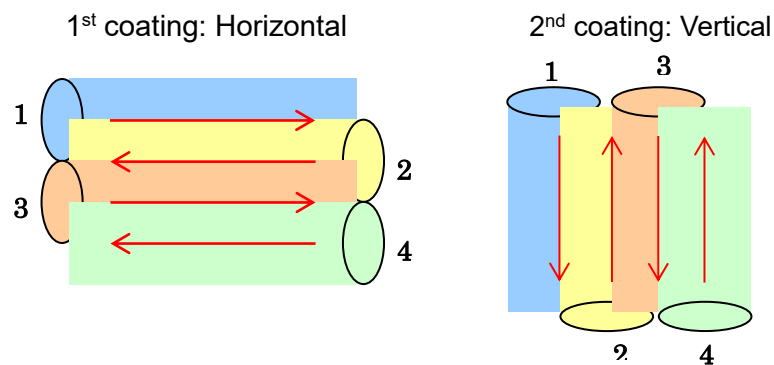
Put a roller into a plate that is filled with coating liquid and roll over the roller a few times to make the coating surface evenly.

- (2) Next, please apply the coating agent to the surfaces such as the following picture.



(3) Recoating the surface to prevent uneven coating.

Ex:



【Tips for Coating】

Don't push a roller to the coating surfaces too much at the beginning. Please adjust the handling power little by little to make the beautiful coating appearance.

4-6-4. Method of spray coating (Recommend application)


(1) Process of coating

Location	Necessary amount (Floor area: 20m2)
1. Ceiling	Over 0.3kg
2. Wall	Over 0.6kg
3. Fixture/Furniture	Coating area × Over 45g

NOTE :

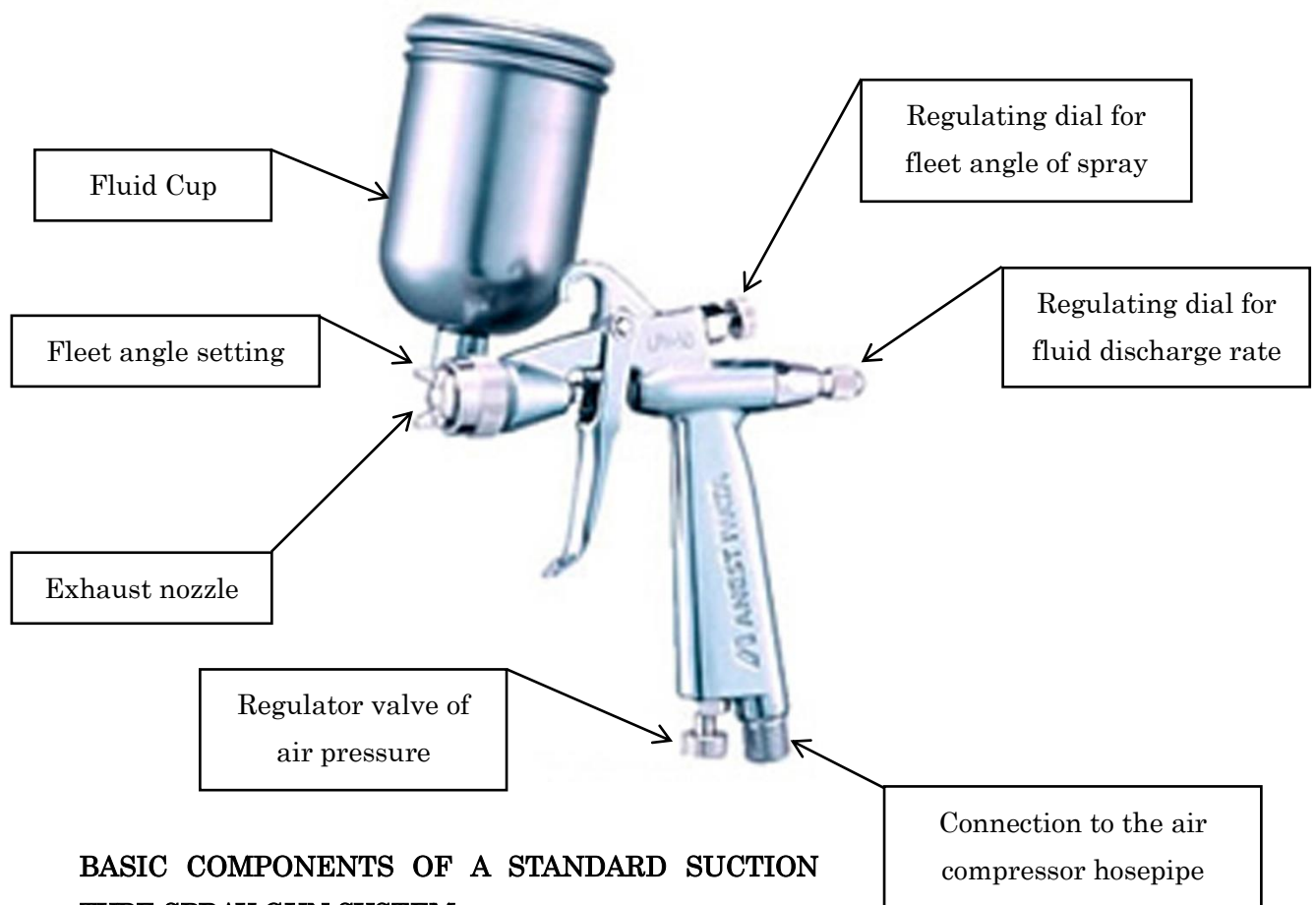
1. Please protect all areas with a masking sheet properly wherever you don't want to apply the coating liquid Otherwise, the liquid splashes everywhere.

- (2) Too much quantity of liquid will cause liquid flow, please execute the coating application by dividing several times and be careful of the surface condition.

	<p>Low-pressure fine-mist Air spray gun Recommend spray-gun Anest-Iwata LPH-50-102G Application pressure: 0.05~0.15MPa</p>
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4-6-4-1. Components of the Spray Gun

4-6-4-1-1. Configuration of the Spray Gun



4-6-4-1-2. Spray Gun Settings

-2-1 Adjusting for the required fleet angle of spray

Normal or initial stage condition



Change to elliptical shape



or



Turn around the exhaust nozzle

Should you move the spray gun sideways during application, the fleet angle of the spray is as follows:

Movement at application			
Horizontal way	Fleet angle is vertical in shape.	Vertical way	Fleet angle is horizontal in shape

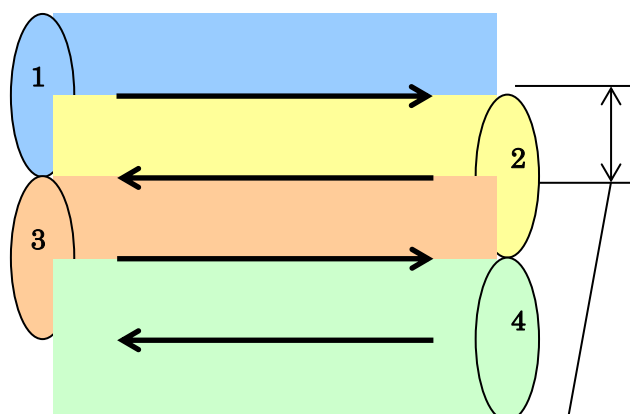
-2-2. Spray Coating Method

-2-2-1 Spraying coating must overlap (half overlap) to ensure full coverage of a surface area.

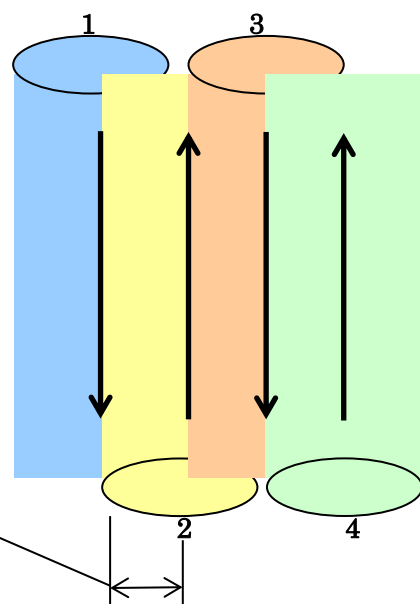
-2-2-2 For more effective surface area coverage, both fleet angle directions should be used.

Example:

First: move to sideways



Second: move to lengthwise



Overlap

-2-3. Handling Instructions

-2-3-1. Select a suitable fleet angle of spray and discharge rate of air and product.

-2-3-2. If a new Product Application Technician is new and applying for the first time, check the discharge rate of the spray gun before the spray-painting work commencement.

A simple test: first, fill the spray gun fluid cup with approximately 100 cc of water, then discharge the water via spray painting for approximately 10 seconds. Weigh water on a scale and calculate the discharge rate (remaining water weight / 10 seconds = discharge rate of spray gun / second).

-2-3-4. Practice the use of the spray gun.

A simple practice procedure: Spray coats a portion of glass/plastic or window with water. If the water fogs up the surface, the spray-painting procedure and discharge rate are the best. However, if water droplets are formed, the timing of spray coating is slow, or the discharge rate is high in quantity. The spray gun must then be adjusted accordingly for more effective discharge rates of air and fluid and/or spraying faster.

-2-4. How to spray the coating liquid

-2-4-1. Scale the coating area and confirm how much you need the coating liquid.

-2-4-2. Please clean the coating area.

-2-4-3. Please put a protective covering on the area or instrument that you do not want to apply the coating liquid.

-2-4-4. Before spraying, please check the air pressure level and the spray gun angle (horizontal, vertical)

* You cannot adjust the pressure level by the spray gun lever.

Adjust the pressure of the air compressor.



Adjust the air pressure level by the air pressure regulator valve.

Adjust the pressure with a spray gun.



Adjust the air pressure level with an attachable air pressure regulator valve.

-2-4-5. Hold a spray gun in your right hand and please have a wet-waste cloth in your left hand.

-2-4-6. Spray the liquid on the wet-waste cloth first and move the spray gun to the coating area with keep

spraying. (If you spray the liquid to the wall directly, sometimes the S-3T coating liquid is attached to the wall and the coating surface is not smooth and looks bad.)

-2-4-7. Please set the spray gun away from the coating area by about 30cm.



-2-4-8. The liquid should be misting condition when you spray the liquid to any surface.

-2-4-9. If you apply the liquid too closely, there will be many water drops on the coating surface.

-2-4-10. Please prepare a ladder or stand depending on the coating area.

-2-4-11. If you sprayed the liquid into the area that shouldn't be applied, please remove the liquid with a wet towel.

-2-4-12. After drying, please apply the liquid again and again with the proper liquid quantity.

-2-5. Pre-Operation / Application Checklist

-2-5-1. The S-3T spray coating method is different as compared to the standard spraying of paint. Therefore, the spray coating technique requires proper coaching from a qualified person.

-2-5-2. All surfaces require various types of application. Hence, pulverization and product exfoliation might occur should a higher-than-normal amount of product be applied at one time.

-2-5-3. Constant practice by the product applicator is required before the actual application of the product.

-2-5-4. A proper calculation and estimation is required by the applicator or supervisor to ensure the proper amount of product is available and that there is minimal wastage of product by having a higher-than-normal discharge rate.

-2-5-5. If the applicator is unsure of the type of surface the product is being applied on before application commencement, check for any forms of rainbow glow and et cetera before the full commencement of product application.

-2-5-6. All product applicators must wear dustproof safety glasses and a dust mask during application.

-2-5-7. If the proposed surface temperature is higher than eighty degrees C, the surface requires cooling down by water or air blasting or the application's mothball.

(Recommend: the proposed surface must be safe to touch with a person's hand.)

-2-5-8. If the product coating breaks or peels away from the proposed surface, the spray-painting method is

ineffective (due to the wrong distance of the spray gun from the surface, wrong discharge rate of product and air-pressure of spray gun and / or poor surface conditions.

-2-5-9. If the proposed surface is powdery after application, the product has not bonded to the proposed surface. Hence the surface will have to be re-cleaned and the complete sequence of product application must be repeated.

-2-5-10. If the application area is high, scaffolding/staging/ladder must be used before product application for safety purposes.

-2-5-11. Surfaces already treated must be protected from moisture until a complete curing period is achieved.

-2-5-12. Should moisture or water be found on the proposed surface, use a dry cloth to absorb the moisture or water before the product application.

-2-6. Explanatory Note for Spray Coating

-2-6-1. Black tape is required and used to indicate spray coat boundaries as well as exfoliation tests.

-2-6-2. The technician uses the spray gun with one hand and the other hand holds a dry / slightly damp cloth for cleaning of surface and spray gun nozzle periodically.

-2-6-3. Be sure the nozzle of the spray gun is cleaned with the said cloth to remove product build-up and excess around the nozzle area before spray coating the product. The periodic cleaning of the spray gun nozzle will ensure excellent and consistent coating results.

-2-6-4. A damp cloth is also used to remove the unwanted coating of the product by wiping off the product before the product hardens.

-2-6-5. The coated area is touch-dry within 60-120 minutes after application (depending on the type of surface being coated as well as local temperature conditions). Then conduct an exfoliation test by using the black tape to try and remove the coating.

4-7. Drying time (At 20 deg C, the time will be changed depending on the surface material)

Product	Standard Drying Time
S-3T	12 hours

4-8. Tool maintenance

- (1) After application, wash the spray gun and nozzle with water by soaking the spray gun in a pail of water, then flush the spray gun by blowing the spray gun underwater. Remove the spray gun from the water and continue blowing the spray gun to flush the remainder of the water from the spray gun's internal chambers¹⁰.
- (2) Soak the brush and roller in a pail of water and wash thoroughly under running water.

4-9. Guideline for Disposal of liquid

- (1) Pleaser according to SDS (Safety Data Sheet) .