

### **Recommended sprayers: Airless sprayer**



## Brand : GRACO

Product name : ELECTRIC AIRLESS PAINT SPRAYERS

#### Nozzele :

https://www.graco.com/us/en/contractor/products/ architectural-painting-coating/paint-sprayers/electric-airless-sprayers.html

# OR



## Brand : WAGNER

Product name : CONTROL PRO 170 SPRAYER

Nozzele :

https://www.wagnerspraytech.com/products/paint-sprayers/pro-170-hea/

Our insulation filler is very thick because of the spheres. So we recommend the airless sprayer.



### Instructions

1	Surface treatment	Be sure to clean, make even, and clean the base material, remove rust, dirt, algae, mold, etc., and clean the surface before applying a base treatment suitable for the base material.		
2	Cleaning	Wash the surface with High Pressure Washer If dust or dirt adheres to the base, the adhesive strength will not be secured and problems such as peeling of the coating film and blistering will occur, so be sure to clean it. When applying to wallpaper, etc., clean the base with water before applying.		
3	CMS primer	<text><text><image/><image/><image/></text></text>		





		Painting interval:					
	2nd Layer of	Application quantity : 200g/sqm					
8	HYDRO	(Water dilution : up to 10%)					
	THERMO	MO Spray with sprayer. Spray evenly. Do not add water more than 10 %					
		Precautions for application 1. To avoid cracks ① Strictly adhere to the dilution rate stated in the construction specifications. (If you apply more than the standard dilution					
		rate, the shrinkage will occur when the paint film dries, causing					
		surface cracks.) (2) Do not apply more than the amount specified in the					
		application guideline. (Paint hardens from the surface, so if the amount					
		applied exceeds the standard amount, water evaporates and breaks					
	through the paint film, leading to surface cracks.) $(3)$ The undercoat lay						
	specified in the construction specifications is Be sure to apply it. (If the						
		is no undercoat layer, when the topcoat layer dries and hardens, the					
		adhesion to the base is weak and internal stress increases, leading to					
		surface cracks on the topcoat surface.) $\textcircled{4}$ For panel bases such as ALC					
		that move a lot, joint Fill the area with a coating material that has a large					
		movement, such as urethane sealing, and use it as a cushioning					
		material. 2. Issues regarding paint film peeling $\textcircled{1}$ If the undercoat layer					
	(primer) is strongly absorbed, reapply the undercoat layer. (If the prime						
		is strongly sucked in, it will not adhere well to the topcoat, causing it to					
		peel off. (The type of base is plasterboard)) ② Do not leave too much					
		space between the undercoat layers. (If the interval is too wide, dirt and					
		dust will adhere to the undercoat layer, causing poor adhesion with the					
		topcoat. Also, if the interval is too wide, the activity of the undercoat layer					
		itself will decrease, causing poor adhesion.) $(3)$ If the base is mortar or					
		concrete, remove not only dirt and dust but also eflo laitance.					
		(Eflo-Laitance itself is an alkali crystal, which causes peeling because it					
		cannot be impregnated with primer and cannot secure adhesion with					
		mortar or concrete.) $\textcircled{4}$ Use the coating material specified by the					
		manufacturer. (Using materials from other manufacturers in combination					
		may cause problems with adhesive strength and durability, so use					
		materials specified by the manufacturer.) $(5)$ If a solvent-based primer					
		was used, use a hydro Since Thermo is a water-based paint, there is a					
		high possibility that defects such as poor adhesion or repelling may					
		occur, so it is removed with a sander, a water-based primer is applied,					
		and then Hydro Thermo is applied. $\textcircled{6}$ When repainting, check the					

adhesion to the base paint film in advance. 3. Regarding color separation (1) Strictly adhere to the dilution rate stated in the construction specifications. (If the dilution rate is too high, separation will occur within the paint film due to the difference in specific gravity of the pigment, resulting in color separation.) (2) Be sure to stir the paint before applying. 4. Avoid construction at low temperatures, high temperatures, and high humidity (environmental conditions of 5°C or lower and 35°C or higher and humidity 85% or higher). Avoid applying under these environmental conditions as the development of coating film strength will be delayed. This may cause cases where the coating film performance is not exhibited or poor adhesion. (If water evaporates at a low temperature and high humidity, the water will not evaporate and the formation of a paint film will be significantly delayed. Also, if the temperature is high, roller marks or brush marks may appear, impairing the aesthetic appearance.) 5. Bases that cannot be painted (1) If the base is painted with fluorine coating or silicone coating, the adhesion cannot be ensured (it will not adhere), so avoid using hydrothermo paint. (2) Avoid painting the PP (polypropylene) base as HydroThermo will not adhere to it. (3) Avoid weak bases. 6. Regarding construction (1) Be sure to stir for 1 to 2 minutes using a manual stirrer. If you have time, stir again for 1 to 2 minutes before use. (2) Remove dirt such as dirt, mold, moss, and oil from the surface to be painted, as well as any paint that is starting to peel off, to keep the surface clean. In addition, construction will be postponed in case of rain. (Even if the weather is sunny, construction will be suspended if it rapidly becomes cloudy.) (3) Provide good ventilation during and after painting. (The formation of the paint film will be delayed, making it difficult to proceed smoothly to the next process. Also, condensation will occur, causing poor adhesion, whitening, and stains.) (4) Since it is a water-based paint, do not use a solvent when diluting it. (Paint separation and drying problems may occur.) (5) Circulate air using a blower. (Particularly when the humidity is high, the drying of the paint film will be extremely slow. Also, avoid blowing air directly onto the painted surface.) (6) If the paint film gets dirty after it dries, do not wipe it off with thinner, etc. Wash with neutral detergent. (7) Prepare water-based painting tools such as roller brushes. (8) Rinse any paint on your tools or hands with water as soon as possible after use.

# Please paint roof for maximum effect!

Room temperature comparison before and after painting

Roof surface	temperature	Room temperature	
when not applied to roof	when applied to roof	when not applied to roof	when applied to roof
54.2°C	32.8°C	42°C	30°C

#### Comparing OPTIMUS-coated and uncoated roofs

Two adjacent factories, one painted with OPTIMUS and one without.



