



ATLANTA CHEMICAL ENGINEERING

Balancing Creativity and Functionality

Instructions for Use

Microwave Active Composition (MWAC)

- Before use, stir well Microwave Active Composition (MWAC) in the container with small paint paddle or rod. Effective stirring includes repeatedly touching bottom of can & lifting to disperse any settled pigments.
- MWAC is NON-TOXIC to human health, but generally, when working with paint like materials it's recommended to wear a lab coat (or old clothes), use gloves and safety glasses.
- MWAC is water based pre-mixed, ready to use. Do not dilute.
- Apply MWAC using a brush, painter roller, or airbrush. For airbrushing the air pressure should be between 70 - 80 PSI.
- Recommended ambient & surface to be coated temperature is between 59-82°F (15-28°C).
- **Do NOT coat and irradiate any kind of metal inside the microwave cavity!**
- The surface to be painted must be dry and free from dirt, oils, rust, and other contaminants.
- The coating dry time at room temperature depends on the nature of the painted surface & air humidity and could last from 1 hour to 12 hours.
- When the coated surface is completely dry, place the ready to use sheet/object in the desired location inside the microwave cavity.
- Irradiate it to identify the actual areas of microwave hits.
- If you need to use a stand to hold the sheet/object in place, it should be transparent to microwaves.
- Sheets/objects coated with reversible MWAC could be used multiple times.
- Sheets/objects coated with irreversible MWAC could be used one time only.
- If the coated object is transparent to microwaves, then the irradiation in an EMPTY cavity should only last for a **few seconds**. It is because in these conditions microwave energy quickly gains very high intensity.
- Keep MWAC in a cool, dark, and dry place. Do not freeze it!
- Avoid exposing MWAC to direct Sun light.
- Do not leave the container open – MWAC will irreversibly dry up.

Note: Longer MW irradiation may destroy the fine microstructure of the composition. Extremely long irradiation could cause fire!

Atlanta Chemical Engineering L.L.C.

web: www.AtlantaChemical.com

e-mail: office@atlantachemical.com