



# ATLANTA CHEMICAL ENGINEERING

Balancing Creativity and Functionality

## Instructions for Use Microwave Active Compositions (MWAC)

The microwave active composition is supplied as ready to use water-based material. Coat a sheet or volumetric object with MWAC using roller or brush. The coated surface should be **compatible\*** to our products and free of dust and impurities. Wait until the microwave active composition coating dries up. Drying time at room temperature depends on the surface type and air humidity - could be from 2 to 12 hours. **We do NOT recommend using of hear dryer or heat gun for faster drying!** 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. Keep them in cool, dark, and dry place. Avoid exposing to direct sun light.

**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.**

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

**\* The surface subject of coating should be free of any traces of salts, organic solvents, acids, and bases. All of these chemicals may destroy the fine microstructure of MWAC. We do preliminary research for any surface subject of coating at a request of the customer.**

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