COLD PLASTIC SYSTEMS (MMA)

ENGINEERED FOR PERFORMANCE — BUILT TO LAST

Cold plastic systems based on MMA (methyl methacrylate) are among the most durable and versatile road marking materials on the market. Thanks to their adaptability to a wide range of applications and mix ratios, they deliver outstanding performance in virtually any traffic environment. Their versatile application options allow for both flat line and structured markings, making SWARCO's multi-component cold plastics the ideal solution for modern, high-performance marking systems.

Unlike thermoplastic systems, cold plastic cures through a chemical reaction and requires no heat input. The result is excellent adhesion to a wide variety of substrates and a significantly extended service life. In combination with SWARCO SOLIDPLUS glass beads, the solvent-free materials achieve outstanding retroreflectivity — even at night and in wet conditions. This creates a powerful overall system that optimally combines road safety, economic efficiency, and sustainability — for safer roads worldwide.

WORKING PRINCIPLE

Cold plastic systems (MMA) cure through a chemical reaction that begins immediately after mixing. They typically consist of:

- Part A: mixture of MMA resins and pigments
- Part B: chemical activator

The result is a highly durable, solvent-free pavement marking that combines performance, reliability, and long service life.

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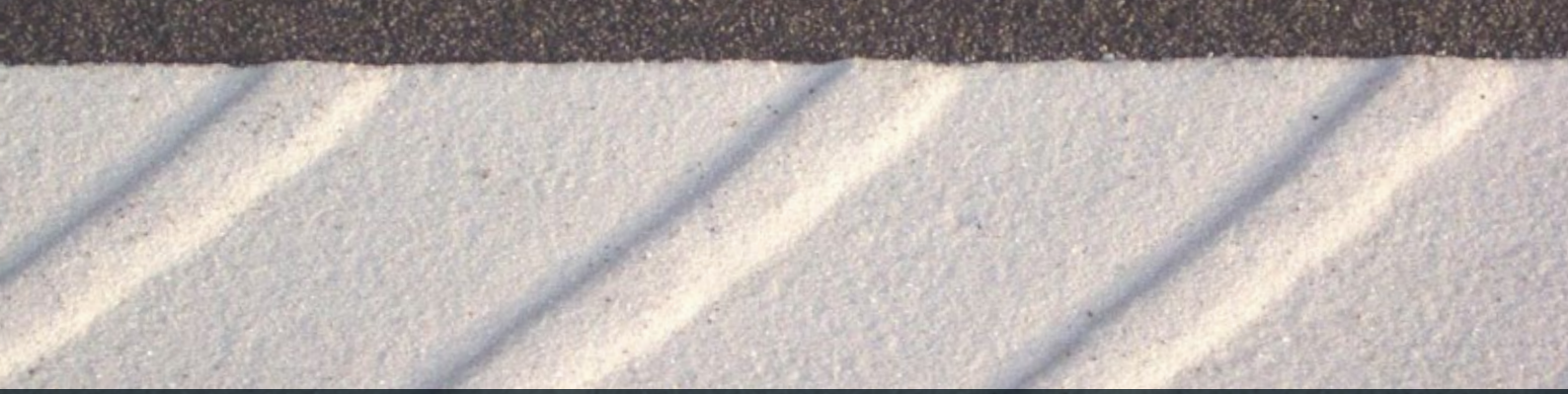
www.swarco.com/rms



WHY CHOOSE COLD PLASTIC (MMA)?

A proven solution for durable, highly visible road markings.

LONGER DURABILITY

Cold plastic markings offer exceptional resistance to wear — even under heavy traffic loads and extreme weather conditions.

BETTER ADHESION

Cold plastic materials bond reliably to a wide range of surfaces — including asphalt and concrete — providing long-term, stable markings.

RETROREFLECTIVITY

Reflective glass beads remain permanently embedded in cold plastic materials, enabling high retroreflectivity and improving visibility — especially at night and in wet conditions.

RESISTANCE TO UV

Cold plastics offer high resistance to ultraviolet radiation, allowing them to retain their colour intensity and brightness over long periods of time.

RESISTS CHEMICALS

Due to their high resistance to oils, de-icing salts, and other chemical influences, cold plastic systems deliver reliable performance even under extreme conditions.

FAST CURING

Cold plastics cure particularly quickly through a chemical reaction, allowing roads to reopen to traffic within just a few minutes.

ENVIRONMENTAL BENEFITS

of cold plastic systems (MMA)

LOWER MATERIAL CONSUMPTION

The extended service life of cold plastic road markings reduces renewal intervals, resulting in lower material consumption and reduced costs.

CO_2 EMISSION REDUCTION

Fewer renewal intervals mean fewer road closures and traffic disruptions. This helps reduce congestion and lower CO_2 emissions.

LITTLE TO NO MICROPLASTIC

In combination with premium glass beads, cold plastic road markings release little to no microplastic particles, making an important contribution to a cleaner environment.

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