MMA Profiled Road Marking Material

Methyl methacrylate (MMA) based · Two-component · Profiled application

PRODUCT DESCRIPTION

A methyl methacrylate (MMA) based, cold-applied material for profiled (raised) road markings, consisting of a base component and a powder hardener.

FEATURES

- Fast curing; the treated area can be opened to traffic quickly.
- Resistant to UV radiation and weathering.
- Long-lasting, with good adhesion to the substrate.
- Unaffected by dirt, dust, exhaust fumes and oil.
- Cold applied, so it carries none of the hazards of hot application.

AREAS OF USE

Profiled marking applications on motorways and urban roads; applied on asphalt or concrete. Profile shape, height and spacing are set by the project specification.

TECHNICAL PROPERTIES

PROPERTY	VALUE
Chemical type	Methyl methacrylate
Density	1.70 ± 0.05 kg/L
Hardener	Benzoyl peroxide-based powder
Mixing ratio	1–2% of the base component weight, depending on weather conditions
Pot life	Approx. 15 minutes at 20 °C
Opening to traffic	30–45 minutes after application
Profile geometry	According to the project specification

APPLICATION

Surface preparation. The surface must be dry, clean and sound during application; do not start until these conditions are met. On new substrates, do not apply before the substrate material has fully set.

Application temperature. Substrate temperature between +5 °C and +40 °C.

Mixing. Add the hardener to the base component at 1–2% of its weight. Mix in a pail with a low-speed mixer for approx. 3 minutes until homogeneous and transfer to the application machine without delay. Do not add any chemicals other than those specified.

Application equipment. Dedicated application machines and attachments suitable for profiled application.

Protection. After application, protect from direct sunlight, strong wind, temperatures above +35 °C, rain and frost.

Cleaning. Clean equipment with solvent immediately, before the material hardens; hardened material can only be removed mechanically.

Application notes. The application area must be well ventilated. Night work requires lighting, and the application machines require three-phase power.

STANDARD

TS EN 1871

PACKAGING AND STORAGE

Base component	25 kg tin
Hardener	25 kg carton (separate component)
Storage	In its unopened original packaging, in a dry, cool place away from direct sunlight and frost.
Shelf life	1 year from the date of manufacture

HEALTH AND SAFETY

Highly flammable liquid and vapour; harmful if inhaled or in contact with skin. Work only in a well-ventilated area; wear protective gloves, goggles and suitable respiratory protection. Always follow the safety data sheets of both the base component and the hardener. For detailed information, refer to the product's safety data sheet (SDS).

The information in this technical data sheet is based on Renga Plus laboratory experience and field applications and applies to the product as of the date of publication. As substrate, weather and application conditions affect product performance, the information is a general guide; the suitability of the product for its intended purpose must be assessed by competent persons before each application. Renga Plus reserves the right to change its products without notice; a new edition of this data sheet supersedes all previous editions. Confirm the current edition at rengaplus.com or with our technical team. For handling, storage, first aid and personal protection information, refer to the product's safety data sheet (SDS).