

# 5050 SERIES

## SWARCOPLAST PROFILED MMA COLDPLASTIC SYSTEMS



### PRODUCT DESCRIPTION

Swarcoplast Profiled MMA 5050 Series is a solvent-free, 100% solids highly durable plural-component system designed to enhance wet night visibility and provide an audible/vibratory warning effect when run over by motorists who are departing their traffic lane.

Swarcoplast Profiled MMA can be applied to Portland Cement Concrete and asphalt surfaces. It is recommended for dangerous road stretches, such as curves or no-passing zones, as well as double directional dividing lines.

Swarcoplast Profiled MMA can only be applied with specialized application equipment for cold plastic markings (extruder / dispensing shoe equipped with special adapter kits for profiles).

### TECHNICAL DATA

PROPERTY	5050 WHITE	5056 YELLOW
Color, Federal Standard 595B	37925	33538
Weight per gallon	14.8 – 16.5 lbs.	14.5 – 16.1 lbs
Viscosity, KU	130 – 140	130 – 140
% Solids, by wt.	> 99	> 99
Gel time @ 25°C	5 – 10 minutes	5 – 10 minutes
Cure time @ 25°C	15 - 30 minutes	15 – 30 minutes
Hardness (Shore D)	50 minimum	50 minimum
Reflectance	85 minimum	45 minimum

### ADVANTAGES

- 100% solids chemistry
- Superior durability to any other road coatings
- High reflective qualities
- Rumble and vibratory effect for safety
- Rain safety marking for enhanced wet night visibility
- Special chemistry for rapid curing at a wide range of temperatures
- Outstanding long-term abrasion resistance
- Exceptional adhesion to a variety of substrates
- Protection against moisture penetration
- Excellent ultraviolet light stability

## MIX RATIO BY WEIGHT

- |         |                                     |                                   |
|---------|-------------------------------------|-----------------------------------|
| ▪ 98:2  | Component A: 5050 White/5056 Yellow | Component B: 5035 Liquid Hardener |
| ▪ 100:1 | Component A: 5050 White/5056 Yellow | Component B: 5033 Powder Hardener |

## COVERAGE

- Coverage depends on desired layer thickness, application technique, machine adjustments, and the type and state of surface.
- When applying at the typical recommended layer thickness of 80-120 mils (2.0 – 3.0 mm), profile elevation of 200-280 mils (5 – 7 mm), presume material use of 20 - 30 ft/gallon at line of 6 inch width

## PACKAGING

**Component A: 5050 White / 5056 Yellow** (other colors available upon request)

- 4 gallon pail
- 40 gallon drums

**Component B: 5035 Liquid hardener for MMA**

- 2 gallon
- 5 gallon
- 5033 Powder Hardener for MMA available in PE bags of various sizes

WARNING: B-COMPONENT CONTAINS ORGANIC PEROXIDE

## INSTALLATION & SURFACE PREPARATION

### ▪ General Information

All of the instructions provided herein and by SWARCO Colorado Paint Company / SWARCO technical representative must be followed exactly. Any variations from the directions may compromise applicability and performance. Only drop-on materials and techniques approved by the manufacturer should be used.

### ▪ General Surface Preparation

In general, coating performance is directly proportional to the quality of surface preparation. Before applying coatings, surfaces must be clean and dry. Remove all grease, oil, gasoline, dirt, grass, loose gravel, old, peeling or flaking paint, and other contaminants.

Flux oils of new asphalt are detrimental to the bonding and may lead to discoloration. Since mechanical removal of these oils is not possible, the surface should be exposed to traffic for 4 - 8 weeks before Swarcoplast Thin Film MMA is applied.

Moisture content of concrete surfaces must not exceed 4% when applying marking.

### ▪ Weather Conditions

Surface, air and material temperature should be between 40 - 105 °F, and at least 5°F above the dew point. Relative humidity must be less than 75%.

A record of weather conditions should be kept

#### ■ Preparation Of The Cold Plastic

Liquid components of Swarcoplast Structured MMA must be homogenously stirred in the original containers before mixing Components A and B.

When using 5035 Liquid Hardener for MMA: Thoroughly mix by weight 2 parts of 5035 Liquid Hardener with 98 parts of Component A.

When using 5033 Powder Hardener for MMA: Thoroughly mix by weight 1 part of 5033 Powder hardener with 100 parts of Component A

Do not intermix liquid and powder hardeners. Be precise: performance and durability are dependent on accurate mix ratios. Never prepare more material than what is needed for the application.

#### ■ Equipment

Application must be done only by specialized equipment. Equipment must be dry and clean and in sound operating condition. Only personnel properly trained in application of cold plastic should apply Swarcoplast Structured MMA. All machinery settings must be recorded.

#### ■ Cleanup

Thoroughly wash all equipment before material sets. Use only special cleaner for marking machines. Clean any spills immediately. Do not permit spills to contaminate drains or aquatic environment.

## SAFETY

Before working with this product, review all information provided in the Safety Data Sheets and follow appropriate safety precautions and good industrial hygiene practices. For industrial use by trained professional personnel only. The hardeners used for the cold plastic system contain organic peroxide. They must be packaged, transported, and stored separately from Component A.

## STORAGE

Store tightly sealed containers in a cool, dry place. Keep away from direct sunlight and protect from frost. FLAMMABLE! – keep away from any source of fire or sparks, no smoking.

This product should be used within one month from the date of purchase, but remains usable for six months from the date of manufacture when stored appropriately in the original sealed containers. Reconstitution is always required prior to use.

## WARRANTY

SWARCO Colorado Paint, LLC warrants to the purchaser that this product shall be manufactured without defects when applied according to SWARCO Colorado Paint Application Instructions. This warranty covers material replacement only. Excluded from coverage is labor, any damage to the application surface or any failure of the coating caused other than by defects within the material. Because the conditions of use are beyond our control, SWARCO Colorado Paint shall not be liable for any injury, loss or damage, direct or consequential, arising from the use or the inability to use the product herein.



## Road Marking Systems

All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy and completeness thereof is not guaranteed. Data is subject to alteration due to technical advances.

Above information not to be taken as a warranty or representation for which we assume legal responsibility. It is offered solely for consideration, investigation and verification.

If you have any questions about proper application techniques or other technical support issues, please contact your SWARCO sales or customer service representative.

Rev. 11/24