

5090 SERIES

SWARCOPLAST THIN FILM MMA



PRODUCT DESCRIPTION

SWARCOPLAST Thin Film MMA 5090 Series is a solvent-free, 100% solids, sprayable plural-component system designed for highway marking materials with enhanced night time visibility.

SWARCOPLAST Thin Film MMA can be applied to Portland Cement Concrete (PCC) and asphalt surfaces as a durable striping material for both edge and centerline markings. It can also be used for roadways, crosswalks, symbols and legends. This system is appropriate for 98:2 mixing equipment. It may also be used as Part A in the 5090/4090 1:1 system.

SWARCOPLAST Thin Film MMA can be applied only with specialized application equipment for cold plastic markings (98:2 system).

TECHNICAL DATA

PROPERTY	5090 WHITE	5096 YELLOW
Color, Federal Standard 595B	37925	33538
Weight per gallon	13.2 - 13.6 lbs.	12.7-13.1 lbs.
Viscosity, KU	95 - 105	95 – 105
% Solids, by wt.	> 99	> 99
Gel time @ 25°C	2 – 10 minutes	2 – 10 minutes
Cure time @ 25°C	5 – 10 minutes	5 – 10 minutes
Hardness (Shore D)	60 minimum	60 minimum
Reflectance	85 minimum	45 minimum

ADVANTAGES

- 100% solids chemistry
- Superior durability
- High reflective qualities
- Special chemistry for rapid set 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
- Snow plow resistant
- Economical durable marking

MIX RATIO BY WEIGHT

- 98:2 Component A: 5090 White/5096 Yellow Component B: 5035 Liquid Hardener

COVERAGE

- Coverage depends on desired layer thickness, application technique, machine adjustments, and the type and state of the surface.
- When applying at the typical recommended layer thickness of 12-20 mils (0.3 – 0.5 mm), presume material use of 166 – 276 ft/gallon at line of 6 inch width.

PACKAGING

Component A: 5090 White / 5096 Yellow: *other colors available upon request

- 4 gallon pail
- 40 gallon drums

Component B: Liquid BPO hardener such as Benox L-40LV should be used

WARNING: B-COMPONENT CONTAINS ORGANIC PEROXIDE

INSTALLATION & SURFACE PREPARATION

▪ General Information

All of the instructions provided herein and by 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. A record of weather conditions should be kept.

▪ 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 MMA products should apply Swarcoplast Thin Film MMA. All machinery settings must be recorded. Because of the rapid set up time, manual roller or trowel application is not recommended.

▪ 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, the user is required to read and understand the information provided in the Safety Data Sheets and to follow the safety precautions and good industrial hygiene practices. Designed for the use by trained professional personnel only.

STORAGE

Store in a dark, dry, and cool place. Protect from freezing. The shelf life when stored appropriately in the original sealed container is two years from the date of manufacture.

WARRANTY

COLORADO PAINT COMPANY II, LLC warrants to the purchaser that this product shall be manufactured without defects when applied according to 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, 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.

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. 11/19