



5090 SERIES

SWARCOPLAST THIN FILM MMA COLDPLASTIC SYSTEMS

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 universal use with all common application techniques for cold plastic markings.

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	12.9-13.4 lbs.	12.7-13.1 lbs.
Viscosity, KU	87 – 97	87 – 97
% 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)	65 minimum	65 minimum
Reflectance	85 minimum	45 minimum

ADVANTAGES

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

PACKAGING

Component A: 5090 White / 5096 Yellow

*other colors available upon request

- 4 gallon pail
- 40 gallon drums

Component B: 5035 Liquid hardener for MMA

- 2 gallon
- 5 gallon

WARNING: B-COMPONENT CONTAINS ORGANIC PEROXIDE

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

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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. Relative humidity must be less than 75%.

A record of weather conditions should be kept.

PREPARATION OF THE COLD PLASTIC

Liquid components of Swarcoplast Thin Film MMA must be homogeneously 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.

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 Thin Film MMA. All machinery settings must be recorded.

CLEAN-UP

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.

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.

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.

WARRANTY

Colorado Paint warrants to the purchaser, for 6 months from the date of manufacturing, that this product when applied according to Colorado Paint application instructions, shall be manufactured without defects. This limited 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 in the material.

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