

DATA SHEET
For
Metal Mark-3
Marking/Identification Paint

DESCRIPTION:

Metal Mark-8, is water based heat resistant marking paint used for production line coding and identification of hot metals. It is non-flammable and is formulated for spray application using automatic marking equipment. Metal Mark-8 cures rapidly upon application to hot surfaces forming a hard, insoluble, chemically bonded, and highly visible white coating that accepts laser markings.

RECOMMENDED USES:

Color coding and identification of hot metals, including: Slabs, Ingots, Bars, Billets, Blooms, Coils, Pipe, Rods, and Ceramics.

FEATURES:

- Heat resistant to 1800°F (982°C)
- Instant cure at 350°F (175°C)
- Withstands repeated thermal cycling
- Excellent adhesion-chemically bonds to surface
- High-Visibility white color
- Excellent weather and abrasion resistance
- Forms water insoluble coating upon curing
- Does not peel or flake
- Non-flammable and environmentally safe
- Direct application to hot surfaces

SURFACE PREPARATION:

For best results, hot metal surfaces should be descaled prior to application of Metal Mark-3.

MIXING:

Mix paint thoroughly before pouring to marking system paint tank.

APPLICATION:

*Prior to first time use of Metal Mark-3 in automatic marking equipment remove all old, caked-on deposits and sediment by thoroughly flushing out system with water.

Apply Metal Mark-3 by spray, using automatic marking equipment. Apply paint to a dry film thickness of 1-1.5 mils (25-38 Microns).

A minimum surface temperature of 350°F (175°C) is required to obtain a rapid and complete cure. Maximum surface temperature at point of application should not exceed 1800°F (982°C).

Provide continuous recirculation of paint in storage tank to prevent pigment setting and clogging of filters. Provide a city water connection and flush equipment periodically to remove any residues and to prevent blockage of filters and spray heads. Maintain temperature of storage tank below 100°F (38°C) to prevent evaporation losses and build-up of dried paint residues on tank surface.

THINNING:

The Metal Mark-3 is ready to use as is. Water can be used as a thinning agent. Do not thin with solvents.

DRY TIME:

Heat is required to bake and fuse the paint film. It dries and cures instantly at a temperature of 350°F (175°C) or higher. Paint must be applied directly to hot surfaces in order to form a smooth water and weather resistant film.

CLEAN UP:

Periodically clean spray equipment, piping, hoses, and storage tank by flushing with clean water.

STORAGE:

Store in a dry place with temperature no lower than 35°F (2°C) or higher than 100°F (38°C). Store only polyethylene or lined steel containers. Keep from freezing.



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