

# R400 MMA TOPCOAT

## TECHNICAL DATA SHEET



**RW 400 MMA Topcoat R400** is a 100% reactive methyl methacrylate (MMA) formulation engineered as the topcoat layer in Resinwerks MMA-based flooring systems. This high-performance, low-viscosity resin offers rapid polymerization—achieving full cure within approximately 60 minutes under standard conditions. Once cured, R400 forms a dense, UV-stable film that exhibits excellent resistance to chemical attack, mechanical abrasion, and environmental exposure.

R400 is specified as a clear topcoat over MMA self-leveling (SL), solid color or broadcast systems. It is typically installed in two successive applications at 15–20 mils per coat. The initial application serves as a grout coat while the second coat functions as the primary barrier layer—enhancing long-term system durability by protecting against water intrusion, chemicals, ultraviolet radiation, and abrasion.

### USES:

- » Heavy traffic industrial floors
- » High foot traffic areas
- » Manufacturing
- » Auto service drive lanes
- » Stadiums

### ADVANTAGES:

- » Rapid return to service
- » Superior impact & abrasion resistance
- » Cold climate installation
- » UV Stable
- » Repairable

### PACKAGING

**R400 MMA Top Coat** is available in the following kits:

- » R400 is packaged in 38 lb. pails and 400 lb. drums.
- » MMA BPO Catalyst is available in 10 lb. containers and 55 lb. boxes.
- » Please note that these products are sold by weight and not volume.

### SUGGESTED APPLICATION:

- » Applied over Resinwerks R300 MMA Intermediate coat or MMA broadcast systems. Refer to Resinwerks MMA Dosing chart for formula recipe and mix ratios.
- » R400 MMA Topcoat at a coverage rate of approximately 80–120 sq. ft. per gallon when using a roller. Multiple coats are recommended.
- » OK for application directly over existing MMA systems. Contact your Resinwerks technical representative for more information.

### ANCILLARY PRODUCTS:

- » Resinwerks BPO Catalyst
- » Resinwerks MMA Pigments

### MATERIAL COVERAGE

#### WET FILM THICKNESS

16 mils wft

#### APPROXIMATE COVERAGE

100 ft<sup>2</sup> / gallon

### GENERAL PRODUCT INFORMATION

<b>Color:</b>	Purple - Translucent
<b>Solids Volume:</b>	100%
<b>V.O.C.:</b>	70 g/l
<b>Pot-life:</b>	18 Minutes @ 72° F
<b>Mix-Ratio:</b>	Refer to dosing chart
<b>Cure Schedule:</b>	72° F @ 50% R.H.  45-60 minutes
<b>Clean-up:</b>	Resinwerks MMA Cleaner
<b>Application Temp:</b>	15°F(9.5°C) - 90°F(32.2°C)
<b>Environment:</b>	For interior or exterior use

### GENERAL PRODUCT PERFORMANCE

TEST TYPE	TEST METHOD	RESULT
Hardness	ASTM D-2240 Shore D	85
Taber Abrasion	ASTM-D-4060	16 mg loss
Flexural Strength	ASTM D-790	3,700 psi
Tensile Strength	ASTM D 638	3850
Water Absorption	ASTMD 570 wt.%	.05
Water Vapor Transmission	DIN53122, g/cm-hr-mmHg x 10 <sup>-9</sup>	1.43
Coefficient of Thermal Expansion	(ASTM D696, in./in./°F): 0.000035	0.000035

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### SURFACE PREPARATION

Once the underlying coat has fully cured, R400 MMA Topcoat may be applied. When used over a flake broadcast system, sanding is required between topcoat applications to ensure optimal inter-coat adhesion. For alternate application schedules or deviations from standard procedure, consult your Resinwerks technical representative prior to installation.

### MIXING INSTRUCTIONS:

- » Please reference Resinwerks MMA Dosing chart for all mixing ratios and formulas.
- » R400 Top Coat may be used in conjunction with Resinwerks MMA pigments. Please reference Resinwerks MMA Dosing chart for actual formula recipes.

### APPLICATION INSTRUCTIONS

- » R400 Top Coat is applied neat using a roller or brush direct to properly prepared concrete.
- » Take special care to ensure that material is applied at an even rate for a consistent film. Multiple coats may be required on older, more porous substrates to help ensure an even primer finish.

### LIMITATIONS

- » Do not apply over epoxy or polyaspartic coatings
- » Do not apply product when ambient or room temperature is below 15°F or over 100°F
- » DEW POINT: Do not apply when dew point is within 5°F of the ambient temperature.

### CAUTION

R400 MMA Top Coat is a flammable liquid in its uncured form. Eliminate all sources of ignition prior to use. Smoking, open flames, and sparks are strictly prohibited in and around the application area. Applicators must wear appropriate personal protective equipment (PPE), including chemical-resistant gloves, safety goggles, and protective clothing. If airborne concentrations exceed permissible exposure limits, use NIOSH-approved organic vapor respirators. All personnel must review the Safety Data Sheet (SDS) and the hazard information provided in the application binder to ensure proper hazard awareness and compliance.

### NOTES

Thoroughly read all Material Safety Data Sheets prior to use and maintain copies on job-site at all times.

Mock-ups and field test areas are strongly recommended in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations,

wear, anti dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc. to ensure system performance as specified for the intended use, and to determine approval of the coating system. Resinwerks does not guarantee compatibility or adhesion with products not manufactured by Resinwerks.

Variability in job site conditions (including but not limited to surface preparation, sunlight, humidity, dew point, temperature, etc.) during application of products may lead to fish-eyes, blistering, pinholes, wrinkling, or out-gassing of air in the concrete and are not product defects.

### TECHNICAL ASSISTANCE

**PHONE: 720-484-5160**

**WEB: [www.resinwerks.com](http://www.resinwerks.com)**