

# MASTERTOP® APS® 2041

Heavy-duty, trowel-applied floor system (silica aggregate)

## DESCRIPTION:

The MASTERTOP® APS® 2041 floor system is a unique hybrid polymer blend of rapid-curing resins. It combines with a silica aggregate blend for installation as a seamless, 3/16" to 1/4" (4.8 to 6.4 mm) flooring system. The MASTERTOP APS 2041 system has good chemical resistance, **cures quickly from 40°F to 85°F (5°C to 30°C)**, contains no solvents and is composed of 100% solids.

The MASTERTOP APS 2041 system provides excellent abrasion resistance, high impact tolerance and handling properties that can significantly reduce labor and installation steps. The system is designed for industrial and manufacturing facilities, and floor areas that are prone to traffic abuse. The MASTERTOP APS 2041 system is non-flammable, non-combustible, non-corrosive - according to Department of Transportation (DOT) specifications - and has been developed for both hand trowel and power trowel application.

## RECOMMENDED FOR:

- Beverage plants, dairies & breweries
- Heavy manufacturing & industrial areas
- High usage mechanical & shop floors
- Loading docks & staging areas
- Aisleways & other high traffic areas
- Areas where quick installation is necessary
- Cold storage warehousing & freezers

## FEATURES/BENEFITS:

- Fast cure rates
- Excellent bond to concrete
- Good abrasion resistance
- Greater toughness - energy absorbing capacity is significantly greater than concrete and typical high strength toppings
- Good chemical resistance
- Non-flammable (*per DOT*)
- Non-combustible (*per DOT*)
- Non-corrosive (*per DOT*)
- Solvent-free / 100% solids
- Excellent handling characteristics
- Fast installation rates

## TECHNICAL DATA:

All properties are 7 day results unless listed otherwise.

**Volatile Organic Compounds (VOCs)** 0 lbs/gal (0 gm/litre)

	<u>1 Day</u>	<u>7 Days</u>
<b>Compressive Strength</b> <i>ASTM C 109</i>	8,000 psi (55 MPa)	12,000 psi (83 MPa)
<b>Tensile Strength</b> <i>ASTM C 307</i>	510 psi (3 MPa)	740 psi (5 MPa)
<b>Flexural Strength</b> <i>ASTM C 348</i>	845 psi (5.8 MPa)	1,350 psi (9 MPa)
<b>Impact Resistance</b> <i>Gardner Direct</i>	> 240 in/lb	
<b>Toughness</b> <i>LA Rattler Test; 2,000 cycles</i>	38% weight loss	
<b>Bond Adhesion Strength</b>	> 350 psi (5,000 psi concrete)	
<b>NBS Abrasion Resistance</b> <i>ASTM C 779</i>	0.023 inches, 60 minutes	
<b>Chemical Resistance</b> <i>Consult your local Master Builders representative.</i>		

## Shelf Life

12 months if stored in original, unopened containers and stored between 50° to 70°F (10° to 21°C).

## GENERAL INFORMATION:

### COLORS

MASTERTOP APS 2041 is available in the following colors.

(1246) Light Grey	(1211) Dark Grey
(1248) Beige	(1245) Medium Grey
(1231) Tile Red	(1242) Country Blue

Please consult Master Builders, Inc. for custom colors.

### MIXED MATERIAL @ 72°F (22°C)

#### Working Time

- Primer: 15 to 20 minutes
- Body Coat: 20 to 30 minutes

#### Cure Time

- Foot traffic: 2 to 4 hours
- Vehicle traffic & chemical exposure: 24 to 48 hours

## ESTIMATING:

- **MASTERTOP APS 2001PRIMER**  
MASTERTOP APS HYBRID POLYMER #2/Part A  
Part A: .62 gal(2.35 litre)  
Packaging: Short filled 2.6 gal (9.85 litre)  
plastic can
- MASTERTOP APS ACTIVATOR #2/Part B  
Part B: .31 gal(1.17 litre)  
Packaging: .5 gal(1.9 litre) plastic bottle
- **MASTERTOP APS 2041 BODY COAT**  
MASTERTOP APS HYBRID POLYMER #1/Part A  
Part A: .68 gal(2.58 litre)  
Packaging: Short filled 2.6 gal (9.85 litre)  
plastic can
- MASTERTOP APS ACTIVATOR #2/Part B  
Part B: .31 gal(1.17 litre)  
Packaging: .5 gal(1.9 litre) plastic bottle
- **MASTERTOP APS NATURAL AGGREGATE**  
Two - 50 lb. bags (22.72 kg bags)
- **MASTERTOP APS 2010 TOPCOAT (Optional):**  
Hybrid Polymer #1: .68 gal (2.58 litre)  
Packaging: 2.6 gal(9.85 litre) plastic can  
Activator #1: .31 gal (1.17 litre)  
Packaging: .5 gal(1.9 litre) plastic bottle

## COVERAGE RATES (Approximate)

- **MASTERTOP APS 2001 Primer:**  
Approximately 125 to 175 ft<sup>2</sup>/unit (11.6 to 16.3 m<sup>2</sup>/unit),  
depending upon concrete substrate.
- **MASTERTOP APS 2041 Body Coat:**  
43 ft<sup>2</sup>/unit (3.99 m<sup>2</sup>/unit) @ 1/4" (6.4 mm)
- **MASTERTOP APS 2010 Topcoat:**  
Approximately 100 to 140 ft<sup>2</sup>/unit (9.3 to 13.0 m<sup>2</sup>/unit)  
@ 10 mils

## SURFACE PREPARATION PROCEDURES:

Concrete must be thoroughly cured and free of oils, grease, dust, dirt, curing compounds and form release agents. Grit blast, scarify or mechanically abrade substrate to remove laitance, loose material and surface contamination. Concrete substrate surface must maintain a surface dry condition throughout curing to ensure proper bond.

## PRODUCT USAGE INSTRUCTIONS:

For complete application instructions, please refer to the MASTERTOP APS 2041 Installation Bulletin.

## CLEAN UP:

Hand tools and power equipment can be cleaned with a solvent or industrial cleaner prior to material hardening.

## LIMITATIONS:

- Material must be stored in a cool, dry area [50°F to 70°F (10°C to 21°C)], away from direct sunlight, flame or other hazards.
- Movement of sub-floor cracks may transmit through flooring.
- An effective vapor barrier is required beneath substrates in contact with ground.
- Adequate ventilation must be ensured during material placement and subsequent joint sawing (according to OSHA standards).
- Heat resistance limit is 160°F (71°C) continuous, and 212°F (100°C) intermittent.

## SAFETY PRECAUTIONS:

This product should only be used by qualified personnel for recommended applications in accordance with current MASTERTOP APS 2041 Installation Bulletin procedures. Please review MSDS sheets prior to placing any material and/or for specific product information.

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