

MasterSeal[®] Traffic 2530

High-solids Epoxy/Polyurethane Waterproofing,
Traffic Bearing Membrane Systems for Vehicular Areas

FORMERLY CONIPUR[®] E

PACKAGING

MASTERSEAL 350
– 10 gallon (38 L) kits
– 110 gallon (412 L) kits

MASTERSEAL M 265
4.66 gal (17.6 L) kits

MASTERSEAL P 255
3.4 gal (12.9 L) kits

YIELD

MASTERSEAL 350
25–40 mils (0.6–1 mm) yields
60–100 ft²/gal (1.5–2.5 m²/L)

MASTERSEAL P 255
4 mils (0.1 mm) yields
250–300 ft²/gal (6.4–7.37 m²/L)

MASTERSEAL M 265
25 mils (0.5 mm) yields
50–60 ft²/gal (1.2–1.5 m²/L)

SHELF LIFE

MASTERSEAL M 265
1 year

MASTERSEAL 350
2 years

DESCRIPTION

MasterSeal Traffic 2530 is a fluid applied epoxy /polyurethane waterproofing system comprised of a flexible polyurethane basecoat and epoxy topcoat. MasterSeal Traffic 2530 uses fast setting, two-component reactive curing mechanisms. It has very low odor.

PRODUCT HIGHLIGHTS

- Two component composition provides faster setting times, even in cooler climates
- Seamless, waterproof membrane protects concrete from freeze/thaw damage; protects occupied areas below from water damage; has no seams that may result in leaks
- Excellent chemical resistance to protect against common parking deck chemicals including gasoline, diesel fuel, oil, alcohol, ethylene glycol, de-icing salt, bleach and cleaning agents
- Skid resistant for increased safety; offers excellent durability and superior abrasion resistance
- Extremely durable with outstanding abrasion resistance, allowing for longer service life

VOC CONTENT

- MasterSeal Traffic 2530 consists of a highly wear-resistant rigid topcoat which is not designed for areas subjected to movement
- MasterSeal P 255 Part A: 10 g/L less water and exempt solvents, when components are mixed
 - MasterSeal P 255 Part B: 10 g/L less water and exempt solvents, when components are mixed
 - MasterSeal M 265 Part A: 4 g/L less water and exempt solvents, when components are mixed
 - MasterSeal M 265 Part B: 5 g/L less water and exempt solvents, when components are mixed
 - MasterSeal 350: 0 g/L less water and exempt solvents when components are mixed and applied per BASF instructions

APPLICATIONS

- MasterSeal Traffic 2530 consists of a highly wear-resistant rigid topcoat which is not designed for areas subjected to movement
- Interior or exterior
 - Above grade
 - Warehouse floors
 - Mechanical rooms
 - Ticket dispenser areas
 - Helix areas
 - Where increased skid and wear resistance are needed
 - Elevated concrete slabs

INDUSTRIES/SECTORS

- Parking structures

Technical Data

Composition

MasterSeal Traffic 2530 is comprised of MasterSeal P 255, MasterSeal M 265, and MasterSeal 350.

MasterSeal P 255 is a two component polyurethane based adhesive primer. MasterSeal M 265 is a two-component fast curing polyurethane basecoat with outstanding mechanical properties including excellent elongation. MasterSeal 350 is a two-component fast curing epoxy topcoat with limited movement capability and outstanding abrasion resistance.

Typical Properties

PROPERTY	VALUE
Solids Content, %	
MasterSeal P 255	99
MasterSeal M 265	99
MasterSeal 350	100
Viscosity	
MasterSeal P 255	630
MasterSeal M 265	3,400
MasterSeal 350	2,000–2,500
Working Time, min at 70°F, 55% RH	
MasterSeal P 255	30±10
MasterSeal M 265	20±5
MasterSeal 350	15±5
Mix Ratio by Volume	
MasterSeal 350	1 to 1

Test Data

PROPERTY	RESULTS	SPECIFICATIONS	TEST METHODS
Crack Bridging, MasterSeal M 265	Passes	No Cracking	ASTM C957
Adhesion Peel, pli for MasterSeal P 255 and MasterSeal M 265	14	5	ASTM C957
Tensile Strength, Psi (Mpa) MasterSeal M 265	2500	Control	ASTM D412
Elongation, % MasterSeal M 265	900	Control	ASTM D412
Hardness			
MasterSeal 350 Shore D at 7 Days	62	–	ASTM D2240
Taber Abrasion Resistance			
MasterSeal 350 mgms, CS-17 wheel, 1,000 cycles	70 mg (neat)	–	ASTM 4060
Tensile Elongation, MasterSeal 350	>30	–	ASTM D638
Thermal Compatibility			
MasterSeal 350 5 cycles, modified 8 hours @ 60°C plus 16 hours @ -21°C	Passes	–	ASTM C884
Rapid Chloride Permeability			
MasterSeal 350 Chloride ion penetration at 28 days	Negligible	–	ASTM D1202

HOW TO APPLY

SURFACE PREPARATION

1. Concrete must be fully cured (28 days), structurally sound, clean and dry (ASTM D4263). All concrete surfaces (new and old) must be shotblasted to remove previous coatings, laitance and all miscellaneous surface contamination and to provide a profile for proper adhesion. Abrasive shotblasting must occur after concrete repair has taken place. Acid etching is not permitted. Proper profile should be a minimum of ICRI CSP-3 (as described in ICRI document 03732.)
2. Repair voids and delaminated areas with BASF branded cementitious and epoxy patching materials. For applications where fast turn-around repairs are required, use the Epoxy Binder patching repair material listed on the MasterSeal 350 data sheet. Do not patch areas with basecoat, rigid concrete or epoxy patches are required.

SURFACE PRESTRIPPING AND DETAIL AREAS

1. Pre-stripe with MasterSeal P 255 1" beyond all surfaces that require detail work, using a short nap roller. Just before application of MasterSeal P 255, remove all dust, dirt and contaminants. Allow MasterSeal P 255 to dry tack-free. On the same day, coat primed surfaces with 25–30 wet mils (0.6–0.8 mm) of MasterSeal M 265. Feather the edges.
2. For non-moving joints and cracks less than $\frac{1}{16}$ " (1.6 mm) wide, apply 25–30 wet mils (0.6–0.8 mm) pre-stripping of MasterSeal M 265 (basecoat) over cured MasterSeal P 255. Apply the basecoat to fill and overlap the joint or crack 3" (76 mm) on each side. Feather the edges.
3. Non-moving joints and cracks over $\frac{1}{16}$ " (1.6 mm) wide must be routed to a minimum of $\frac{1}{4}$ " by $\frac{1}{4}$ " (6 by 6 mm) and cleaned. Install a bond breaker material at the bottom of the joint to prevent three-sided adhesion. Prime joint surfaces with MasterSeal P 173 and fill with MasterSeal SL 2™ or MasterSeal NP 2™. Sealant should be flat and flush with the adjacent surface. Apply 25–30 wet mils (0.6–0.8 mm) pre-stripping of MasterSeal M 265 over cured MasterSeal P 255. Apply the basecoat to fill and overlap the joint or crack 3" (76 mm) on each side. Feather the edges.
4. Sealant joints, including precast panel joints, are not to be coated with MasterSeal 350 so they can perform independently of the deck coating system. Application of the full membrane system over moving joints will cause cracks in the epoxy topcoat.

5. Form a sealant cant bead in the corner at the junction of all horizontal and vertical surfaces (wall sections, curbs, columns) by priming with MasterSeal P 173 and applying a $\frac{1}{2}$ – $1\frac{1}{2}$ " wide bead of MasterSeal NP 2. Tool to form a 45° cant. Apply masking tape to the vertical surfaces above the sealant cant to provide a clean termination of the vertical detail coat. After the sealant has cured, prime the deck on either side with MasterSeal P 255. Apply 25 wet mils of MasterSeal M 265 over the cured sealant cant up to the masking tape and 4" onto the deck surface. Feather onto the deck surface so that it will not show through the finished coating system. Do not apply the epoxy topcoat over the sealant cant bead and do not apply up the face of the vertical surface. Coat this entire exposed cant bead area with MasterSeal TC 295 or MasterSeal TC 225.
6. Where the coating system will be terminated and no wall joint or other appropriate break exists, cut a $\frac{1}{4}$ " by $\frac{1}{4}$ " sawcut keyway into the concrete. Fill and coat keyway when application of MasterSeal M 265 commences.

UNCOATED METAL SURFACES

Remove dust, debris and any other contaminants from vent, drain pipe and post penetrations, reglets and other metal surfaces. Clean surfaces to near white per SSPC-NACE2 and prime immediately with MasterSeal P 173. Provide appropriate cant with MasterSeal NP 1 or MasterSeal NP 2 sealants to eliminate 90° angles.

PRIMING (MASTERSEAL P 255)

1. Before mixing, precondition both components to a temperature of approximately 70°F (21°C).
2. Add entire contents of MasterSeal P 255 Part B to Part A. Mix both components with a slow-speed drill for a minimum of 3 minutes. Scrape down sides and bottom of mixing vessel, then, mix again for 2 minutes. Keep the mixing paddle submerged during mixing to avoid adding air into the mixture.
3. Apply with paint roller or squeegee at a rate of 250–300 ft²/gal (6.4–7.37 m²/L) or approximately 4 wet mils (0.1 mm).
4. Apply primer only to those areas that will be coated within 12 hours with MasterSeal M 265.
5. Minimum curing temperature is 40°F (4°C). Protect primed areas from rain and moisture.

6. Basecoat may be applied over primer in 2–4 hours depending on temperature and humidity. However, it is important that the primer is tack-free prior to application of basecoat.
7. Working time is approximately 30 minutes at 70°F (21°C). Higher temperatures will shorten working time.

APPLICATION

APPLICATION OF BASECOAT (MASTERSEAL M 265)

1. Precondition both A and B components to a temperature of approximately 70°F (21°C).
2. Add entire contents of MasterSeal M 265 Part A to Part B. Mix components with a slow-speed drill for a minimum of 3 minutes. Scrape down sides and bottom of mixing vessel, then mix again for 2 minutes. Keep the mixing paddle submerged during mixing to avoid adding air into the mixture.
3. Apply at a rate of 25 wet mils (0.5 mm) 60 ft²/gal (1.47 m²/L) using a proper notched squeegee and backroll.
4. Apply basecoat only to those areas that can be recoated within 24 hours with MasterSeal 350. Allow basecoat to cure 3–4 hours before applying MasterSeal 350.
5. Working time is approximately 20 minutes at 70°F (21°C). Higher temperatures will shorten working time.

APPLICATION OF INTERMEDIATE AND TOPCOAT (MASTERSEAL 350)

1. Thoroughly mix each separate component for 2–3 minutes
2. Mix Part A (resin) and Part B (hardener) in the proper ratio (1 to 1 by volume) using a slow speed drill (250–500 rpm) and paddle for 2–3 minutes.
3. Because of the quick cure rate of this product, do not mix more material than can be applied within the pot life of 15–25 minutes at 75°F (24°C). Elevated temperatures decrease pot life, and reduced temperatures increase pot life.
4. The maximum recoat window for additional coats of MasterSeal 350 is 24 hours.

APPLICATION OF SYSTEMS

MasterSeal Traffic 2530 can be installed in several configurations, depending upon the degree of traffic to which the system is exposed. In areas of extreme traffic (turning lanes, pay booths, entrances and exits), apply the Extra Heavy-Duty Traffic System. The following summary briefly describes each configuration. All coverage rates are approximate.

MEDIUM DUTY SYSTEM

1. Apply 4 wet mils of MasterSeal P 255 at 250–300 ft²/gal (6.1–7.4 m²/L).
2. Apply 25 wet mils of MasterSeal M 265 with proper notched squeegee at the rate of 50–60 ft²/gal (1.2–1.5 m²/L). Allow basecoat to cure 3–4 hours minimum. MasterSeal 350 must be applied to the cured MasterSeal M 265 within 24 hours.
3. Apply 20–25 wet mils of the mixed MasterSeal 350 topcoat with proper notched squeegee at the rate of 60–80 ft²/gal (1.6–2.0 m²/L). Place the epoxy to permit a continuous operation by applying the second mix immediately behind the first mix.
4. Immediately broadcast MasterSeal 940 Aggregate #9 into the wet MasterSeal 350 to complete saturation (approximately 1.1 lb/ft²). If wet spots develop, immediately broadcast additional aggregate until a dry surface is re-established. On large areas, work small sections to ensure aggregate is applied before the membrane begins to skin over. Refer to the section titled “AGGREGATE” further on in this document if an aggregate substitution is being considered.
5. Remove excess aggregate by sweeping, blowing or vacuuming.
6. Allow a minimum cure time of 6 hrs for MasterSeal 350 before allowing vehicular traffic.

HEAVY DUTY SYSTEM

1. Apply 4 wet mils of MasterSeal P 255 at 250–300 ft²/gal (6.1–7.4 m²/L).
2. Apply 25 wet mils of MasterSeal M 265 with proper notched squeegee at the rate of 50–60 ft²/gal (1.2–1.5 m²/L). Allow basecoat to cure 3–4 hours minimum. MasterSeal 350 must be applied to the cured MasterSeal M 265 within 24 hours.
3. Apply 20–25 wet mils of the mixed MasterSeal 350 with proper notched squeegee at the rate of 60–80 ft²/gal (1.6–2.0 m²/L). Place the epoxy to permit a continuous operation by applying the second mix immediately behind the first mix.
4. Immediately broadcast MasterSeal 940 Aggregate #9 to complete saturation (approximately 1.1 lb/ft²). If wet spots develop immediately broadcast additional aggregate until a dry surface is re-established. On large areas, work small sections to ensure aggregate is applied before the membrane begins to skin over.
5. Remove excess aggregate by sweeping, blowing, or vacuuming.

6. Apply 15–20 wet mils of the mixed MasterSeal 350 with proper notched squeegee at the 80–100 ft²/gal (0.4–0.5 m²/L). Place the epoxy to permit a continuous operation by applying the second mix immediately behind the first mix. As a possible option, steps 3 and 6 can be combined to apply a single epoxy topcoat at 35–40 wet mils. Contact your local BASF representative for assistance.
7. Immediately broadcast MasterSeal 940 Aggregate #9 to complete saturation (approximately 1.1 lb/ft²). If wet spots develop, immediately broadcast additional aggregate until a dry surface is re-established. On large areas, work small sections to ensure aggregate is applied before the membrane begins to skin over.
8. Allow a minimum cure time of 6 hrs at 70°F (21°C) for MasterSeal 350 before allowing vehicular traffic.

EXTRA HEAVY DUTY SYSTEM

1. Apply 4 wet mils of MasterSeal P 255 at 250–300 ft²/gal (6.1–7.4 m²/L).
2. Apply 25 wet mils of MasterSeal M 265 with proper notched squeegee at the rate of 50–60 ft²/gal (1.2–1.5 m²/L). Allow basecoat to cure 3–4 hours minimum. MasterSeal 350 must be applied to the cured MasterSeal M 265 within 24 hours.
3. Apply 40 wet mils of the mixed MasterSeal 350 topcoat with proper notched squeegee at the 35–40 ft²/gal (0.9–1.0 m²/L). Place the epoxy to permit a continuous operation by applying the second mix immediately behind the first mix.
4. Immediately broadcast MasterSeal 940 Aggregate #9 to complete saturation (approximately 1.1 lb/ft²). If wet spots develop, immediately broadcast additional aggregate until a dry surface is re-established. On large areas, work small sections to ensure aggregate is applied before the membrane begins to skin over.
5. Remove excess aggregate by sweeping, blowing or vacuuming.
6. Apply 40 wet mils of the mixed MasterSeal 350 topcoat with proper notched squeegee at the 35–40 ft²/gal (0.9–1.0 m²/L). Place the epoxy to permit a continuous operation by applying the second mix immediately behind the first mix.

7. Immediately broadcast MasterSeal 940 Aggregate #9 to complete saturation (approximately 1.1 lb/ft²). If wet spots develop, immediately broadcast additional aggregate until a dry surface is re-established. On large areas, work small sections to ensure aggregate is applied before the membrane begins to skin over.
8. Allow a minimum cure time of 6 hrs at 70°F (21°C) for MasterSeal 350 before allowing vehicular traffic.

IMPORTANT NOTES:

All coverage rates are approximate and may vary due to texture, porosity of the substrate, size and type of aggregate used, temperature and application techniques used. In order to verify your coverage rates, a mockup is recommended.

MasterSeal 350 is not designed to be used as a decorative system and will discolor over time when exposed to UV light.

As an option, an elastomeric polyurethane topcoat such as MasterSeal TC 295 can be applied over the top of the MasterSeal 350 to change the final appearance. The systems listed in this data guide can be altered by BASF to suit particular site conditions. Contact your local BASF representative for assistance.

MOCKUP

1. Provide mockup of at least 100 ft² that includes surface profile, sealant joints, cracks, flashing and juncture details and final appearance.
2. Install mockup with the specified coating types and with other components noted.
3. Locate where directed by architect or engineer.
4. Mockup may remain as part of work if acceptable to architect or engineer.

AGGREGATE

MasterSeal 940 Aggregate #9 is recommended with MasterSeal 350. It is hard-wearing, angular, dark-gray aggregate. Alternately, an angular-shaped silica or basalt aggregate with a minimum Mohs scale hardness of 7 may be used. The alternate aggregate must be clean and dry (less than 0.2% moisture).

COARSE AGGREGATE

Sieve #	12	16	20	30
% Passing	90	45–60	18–35	9–15

FOR BEST PERFORMANCE

- MasterSeal 350, MasterSeal M 265, and MasterSeal P 255 have very short working times. Once the material has been mixed, the coating must be poured onto the surface and applied immediately
- Minimum application temperature is 40°F (4°C). Contact technical support when temperatures are above 90°F (32°C)
- Do not apply to concrete that is outgassing
- Warm temperatures will shorten working time; plan work accordingly
- Concrete should have a minimum compressive strength of 3,000 psi and be cured for a minimum of 28 days
- Do not apply the MasterSeal Traffic 2530 system to concrete slabs on grade, splits slabs with a sandwiched waterproofing membrane, unvented metal pan decks or plywood decks.
- Do not apply the MasterSeal Traffic 2530 system to a concrete deck that has deflection exceeding L/480.
- MasterSeal 350 is a rigid epoxy material and may crack due to substrate flex and movement under the membrane system. Do not install MasterSeal 350 over moving sealant joints.
- The best method to ensure the proper wet film thickness is the use of a grid system. Divide the surface to be coated into grids and calculate the square footage of each. Refer to the coverage chart to determine the quantity of coating needed for each grid to arrive at the required mil thicknesses.
- Avoid application of MasterSeal Traffic 2530 traffic deck coatings when inclement weather is present or imminent.
- Do not apply MasterSeal Traffic 2530 to damp, wet or contaminated surfaces
- Terminate MasterSeal 350 at the base of vertical wall areas with a sealant cant bead. It may be required to cover the sealant cant bead and up the wall with either MasterSeal Traffic 2500 or MasterSeal TC 225.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the sole purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting www.master-builders-solutions.basf.us, e-mailing your request to basfbcst@basf.com or calling 1(800)433-9517. Use only as directed.

**For medical emergencies only,
call ChemTrec® 1(800)424-9300.**

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