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Technical Data Guide

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Joint
Sealants

MasterSeal® 658

Slip resistant acrylic coating for asphalt and concrete;
Line Striping and Primer

FORMERLY TUF-TRAC®

PACKAGING

MasterSeal 658, 658 Primer
and 658 Line Striping:
5 gallon (18.93 L) pails

COLORS

- Standard: French Gray, Red, and Green.
- Tint Bases

YIELD

MASTERSEAL 658
See chart on page 2

MASTERSEAL 658 LINE STRIPING
Approximately 1,200 linear ft/gallon
(96 m/L) at 2" (51 mm) width and
3 dry mils (0.08 mm)

MASTERSEAL 658 PRIMER
250–300 ft²/gal (6.1–7.4 m²/L) to
achieve a 1 dry-mil (0.025 mm) thickness

STORAGE

Store in unopened containers in cool,
clean dry area. Do not allow any
MasterSeal 658 product to freeze
in the container; do not store below
35 °F (2 °C).

SHELF LIFE

2 years when properly stored

DESCRIPTION

MasterSeal 658 is a water-based , slip resistant acrylic coating for concrete and asphalt.
MasterSeal 658 accessories provide a complete coating system for outdoor recreation areas and
surfaces with pedestrian traffic.

PRODUCT HIGHLIGHTS

- Slip resistant safety finish makes MasterSeal 658 ideal for pedestrian traffic surfaces
- Excellent UV resistance
- Comes in vivid, permanent colors that help beautify concrete and asphalt surfaces
- Weather resistance for excellent durability and abrasion resistance
- Ready to use with nothing to add or mix; just pour and spread
- Colors are non-glaring, making them ideal for tennis courts
- Available in custom colors for a wide range of color choices
- Water based for easy cleanup

VOC CONTENT

MASTERSEAL 658: 0.376 g/L
less water and exempt solvents.

MASTERSEAL 658 LINE STRIPING: 47 g/L
less water and exempt solvents.

MASTERSEAL 658 PRIMER: 115.4 g/L
less water and exempt solvents.

APPLICATIONS

- Interior and exterior
- Pedestrian traffic areas
- Balconies
- Swimming pool decks
- Arenas
- Walkways and stairways
- Tennis courts and playgrounds
- Bike paths
- Recreational areas

SUBSTRATES

- Concrete
- Masonry
- Asphalt

Technical Data

Composition

MasterSeal 658 is a 100% acrylic formula with silicon dioxide (quartz aggregate).

Typical Properties

MASTERSEAL 658

PROPERTY	VALUE
Solids, %	
By weight	63
By volume	47
Viscosity, KU at 77 °F (25 °C)	120

MASTERSEAL 658 LINE STRIPING

PROPERTY	VALUE
Solids, %	
By weight	58
By volume	38
Viscosity, KU, at 77 °F (25 °C)	95
Type	Acrylic
Finish	Flat

MASTERSEAL 658 PRIMER

PROPERTY	VALUE
Solids, %	
By weight	22
By volume	20
Viscosity, sec (#1 Zahn cup)	100
Type	Acrylic

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

Yield

FT²/GAL (M²/L)

COAT	CONCRETE	ASPHALT	AGED ASPHALT
1st	90 – 100 (2.2 – 2.5)	80 – 90 (2.0 – 2.2)	70 – 80 (1.7 – 2.0)
2nd	100 – 125 (2.5 – 3.1)	90 – 125 (2.2 – 3.1)	80 – 100 (2.0 – 2.5)

HOW TO APPLY

SURFACE PREPARATION

CONCRETE SURFACES

1. Floors must be structurally sound, fully cured, clean and dry.
2. Holes, crevices and spalled or disintegrated portions must be properly patched and filled; consult Technical Service for the appropriate concrete repair product.
3. All oil, grease, dirt, debris, mortar, paint drippings, curing and parting compounds and other surface treatments such as hardeners or sealers must be removed.
4. Mechanical surface profiling is the preferred floor preparation method. Mechanically profile the floor to a medium-grit sandpaper texture and remove curing and parting compounds and other surface hardeners and floor coatings. The key is to create a surface profile that will enable the coating to penetrate.

ASPHALT SURFACES

1. New asphalt must weather a minimum of 60 days before application of MasterSeal 658. Rake out all cracks to remove accumulated sand, mud and weeds. Thoroughly hose down the surface to remove sand and sediment.
2. Scrub oil-soaked areas with a strong solution of detergent and hot water. Rinse area thoroughly with clear water, squeegee off excess, and allow to dry 1 to 3 days. When dry, check surface for any dirt or debris. If more than a trace is present, remove it with compressed air or a vacuum.
3. Repair holes and cracks with a suitable sealant, filler or patching material.
4. Press or squeeze patch firmly into place with a putty knife or trowel. Level off with adjacent surface.
5. Allow a minimum of 24 hours before topcoating. Do not apply in cracks wider than 1/2" (13 mm).

PRIMING (CONCRETE ONLY)

Only required when MasterSeal 658 is subjected to freeze-thaw environmental conditions.

1. Apply MasterSeal 658 Primer at the rate of 250–300 ft²/gallon (6.1–7.4 m²/L). Apply MasterSeal 658 over the primer within 30 minutes while the surface still has a slight tack to it. In shady conditions apply MasterSeal 658 within 4 hours.
2. To improve the subsequent application of MasterSeal 658 acrylic coating, use approximately 1–2 lbs/gallon (0.12–0.24 kg/L) of fine-grain, dry silica sand broadcast with MasterSeal 658 Primer; lightly broadcast the sand onto the material while it is still wet. This will prevent the roller or squeegee from slipping when MasterSeal 658 is applied.

APPLICATION

1. Stir MasterSeal 658 well before using. Whenever possible, apply MasterSeal 658 out of direct sun and during the cooler hours of the day.
2. MasterSeal 658 may be applied using a 3/8" (10 mm) roller cover or wide-blade rubber squeegee. Dampen the squeegee or roller before using and shake off excess water.
3. Pour MasterSeal 658 in a continuous stream along one edge of the area to be coated. In hot or sunny conditions, up to 1/2 gallon (1.9 L) of water per 5 gallon (18.93 L) pail may be added to improve the flow and application.
4. Spread evenly in short windrows. Continue pouring and spreading MasterSeal 658, overlapping 50% into the wet edge of the previous pass. For roller applications, finish the coating in one direction to prevent shading variations.
5. Allow the first coat to dry thoroughly before applying a second. For the best finish, apply the second coat at a right angle to the first.

TOP COATING

For heavier foot traffic or stain and dirt resistance, top coat the fully dried and cured MasterSeal 658 with MasterKure CC 1315 WB (see form No. 1017913).

MASTERSEAL 658 LINE STRIPING

1. Surface must be clean and dried at least 8 hours after application of MasterSeal 658.
2. Do not spray line striping; use brush or roller.
3. Mark tennis courts with 2" wide stripes according to U.S.T.L.A. regulations. Remove tape when line striping has set, but not completely dried.
4. Drying time at 70 °F (21 °C) and 50% relative humidity is approximately 1 hour for tack-free. Allow drying time of 2 hours between coats.

DRYING TIME

At 70 °F (21 °C) and 50% relative humidity:
– 4 hours between coats
– 8 hours for light foot traffic
– 24–36 hours for heavy pedestrian traffic
Application at cooler temperatures or high humidity will greatly extend drying times.

MAINTENANCE

1. MasterSeal 658 should be cleaned only after the coating has been cured at least 2–3 weeks. To remove dirt, use a solution of water with TSP, ammonia or a mild detergent. Scrub lightly with a soft-bristled brush.
2. Rinse the surface thoroughly with clean water.
3. Do not allow the cleaning solution or rinse water to stand or pond for long periods of time. Severe stains may require a strong detergent.

CLEAN UP

Clean tools and equipment with soap and water.

FOR BEST PERFORMANCE

- Do not allow MasterSeal 658 to freeze in the container.
- Do not apply MasterSeal 658 when the relative humidity is above 70% or when the surface temperature is below 60 °F (16 °C) or when it will drop below 60 °F (16 °C) within 24 hours after application. If rain is expected, protect surface for at least 3 hours.
- Air temperatures above 90 °F (32 °C) can promote extremely quick dry times. Work quickly to smooth out the coating to avoid leaving roller or squeegee lines.
- Because MasterSeal 658 is a textured coating, it may stain or pick up dirt.
- MasterSeal 658 will not eliminate structural defects such as major cracks caused by an unsound substrate; tennis courts having widespread surface defects (holes, cracks, pitting and depressions) should be filled and then leveled with several applications of a bodied asphalt-emulsion sealer.
- When the court surface displays major structural problems such as wide cracks, erosion and heaving, resurfacing will not be sufficient. A 2" course of blacktop may be required.
- Dry time will be retarded by high humidity or low temperatures. MasterSeal 658 can take up to 2–3 weeks for a total cure. Interior applications not subject to direct sunlight may take longer for a total cure.
- Not recommended for driveway applications; avoid heavy tire traffic. Contact with brake fluid, gas, oils and other petroleum-based products will soften and deteriorate MasterSeal 658.
- Prolonged contact with standing water will temporarily soften MasterSeal 658. Keep traffic off the softened surface until it has dried. When thoroughly dry, MasterSeal 658 will regain its hardness. MasterSeal 658 is not recommended on surfaces subject to water ponding or excessive wetness. Slope surfaces to drain water.
- When applying MasterSeal 658 over an existing coating, a test application is recommended.

- When applying MasterSeal 658 on dry APA-approved wood decks, first prime with an alkyd-oil-based primer, then coat with MasterSeal 658; treated lumber must weather for a minimum of 6 months before primer and MasterSeal 658 can be applied.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the 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 basfbcsst@basf.com or calling 1(800)433-9517. Use only as directed.

**For medical emergencies only,
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