PUMA TECHNOLOGY

Flexible Methacrylate Waterproofing

Vulkem® EWS Traffic Coatings • TREMproof® PUMA Below-Grade Membranes

TREMCO®
Commercial Sealants & Waterproofing

PUMA TECHNOLOGY

PUMA technology provides superior elongation over traditional MMA/ PMMA technology systems. The flexible polyurethane methacrylate base coat allows for better movement through temperature cycles, even below freezing.These rapid curing systems feature extreme durability, full-cure independent of low temperature, exceptional crack bridging capabilities, tenacious adhesion and superior abrasion resistance.

IDEAL FOR
COLD WEATHER APPLICATION

EXTENSIVE
CRACK BRIDGING

PUMA MMA

SUPERIOR ELONGATION

ZERO VOLATILE ORGANIC
COMPOUNDS

COMPATIBLE WITH TREMCO
SEALANTS AND COATINGS

PEACE OF MIND GUARANTEE

Our all-inclusive warranties provide confidence that your project's systems are backed by a company with more than 85 years' experience, success and proven performance in the industry. Tremco warranties are available to include seamless connections to adjacent building envelope components to create single-source, warranted, tested systems.

TESTED • PROVEN • WARRANTED

PUMA SYSTEM COMPONENTS

- **Tremco PUMA Primer -** A methyl-methacrylate (MMA), two-component primer for porous and non-porous substrates.
- **Tremco PUMA Initiator -** A benzoyl peroxide-based powder used to react all components of Tremco PUMA systems.
- **Tremco PUMA BC -** A modified polyurethane-methacrylate (PUMA) base coat that bonds firmly to Tremco PUMA Primer and retains its integrity regardless of substrate movement up to 1/16". Available in self-leveling, roller, trowel and low-modulus grade.
- **Tremco PUMA Flashing -** A modified polyurethane-methacrylate (PUMA) base coat that bonds firmly to Tremco PUMA Primer, and is compatible with Tremco's TREMproof® 6100.
- **Tremco PUMA WC -** A modified polyurethane-methacrylate (PUMA) wear coat, loaded with aggregate to give the system excellent impact, abrasion and chemical resistance.
- **Tremco PUMA Filler Powder -** A crystalline silica powder used in conjunction with Tremco PUMA WC.
- **16 to 20 mesh silica sand, color quartz, aluminum oxide (bauxite) -** Used in conjunction with PUMA Primer, PUMA WC and PUMA TC. *(Supplied by others.)*
- **Tremco PUMA TC -** A methyl-methacrylate (MMA) top coat that offers excellent abrasion resistance, UV stability and chemical resistance system. *(Available in gray, slate gray, decorative and tintable.)*

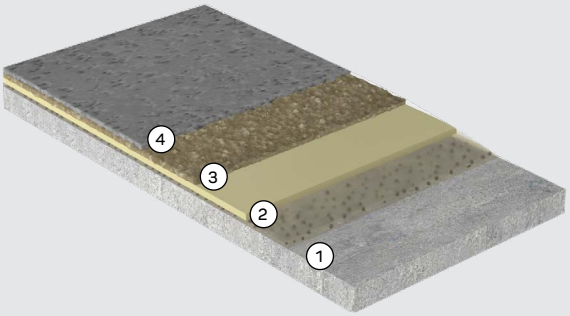
VULKEM® EWS TRAFFIC COATINGS

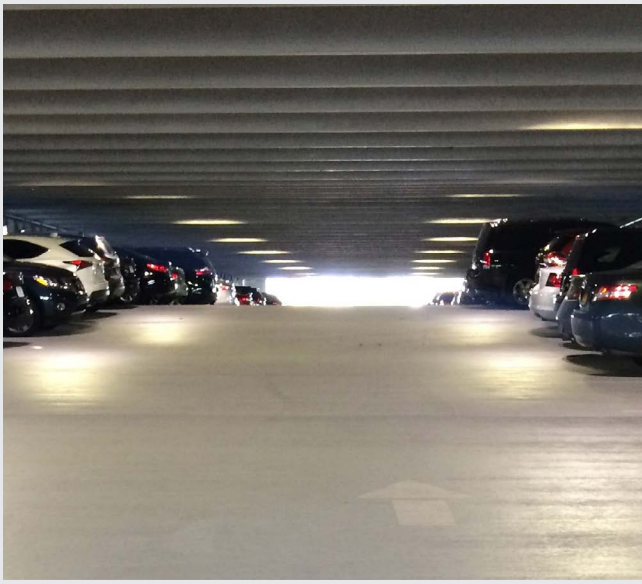
Rapid turnaround, high-performance coatings with tenacious adhesion and extreme abrasion resistance

VEHICULAR

VEHICULAR SYSTEM

Parking Structures, High-Wear Turn and Drive Lanes, Helical Turns, Ramps and Ticket Spitters





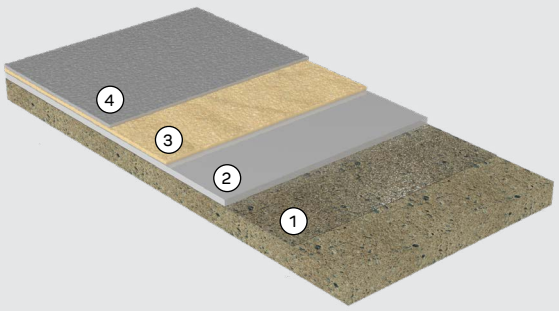
	Product	Coverage Rate	Wet Mils	Comments
1	Tremco PUMA Primer	90 ft²/gal	17	Broadcast 30 to 50 mesh silica sand at a rate of 7 lb per 100 ft² into wet primer.
2	Tremco PUMA BC	20 ft²/gal	80	Allow 45 minutes to cure before proceeding.
3	Tremco PUMA WC with PUMA filler powder	25 ft²/gal	65	Broadcast 16 to 30 mesh silica sand to refusal. Allow 45 minutes to cure before proceeding.
4	Tremco PUMA TC	53-90 ft²/gal	17-30	Allow 60 minutes to cure before opening to traffic.

VULKEM® HYBRID TRAFFIC COATINGS

Rapid turnaround, high-performance coatings with tenacious adhesion and extreme abrasion resistance

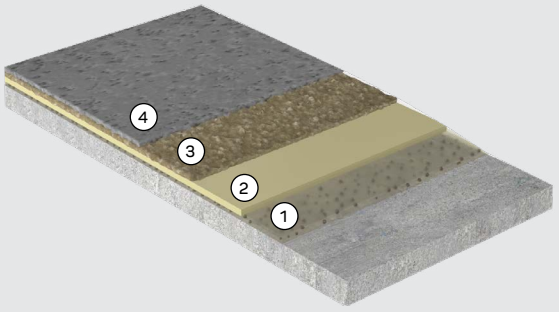
HYBRID SYSTEM

Vulkem Urethanes for Driving Lanes and Parking Stalls



	Product	Coverage Rate	Wet Mils	Comments
1	Primer (condition dependent)	400 to 600 ft²/gal	N/A	See local Tremco representative
2	Vulkem Base Coat	64 ft²/gal	25	See mixing instructions
3	Vulkem Intermediate Coat	105 ft²/gal	15	16 - 30 mesh silica sand
4	Vulkem Top Coat	133 to 160 ft²/gal	10 to 12	Vehicular traffic 72 hours after cure

Vulkem EWS for Helical Turns, Ramps and Ticket Spitters



	Product	Coverage Rate	Wet Mils	Comments
1	Tremco PUMA Primer	90 ft²/gal	17	Broadcast 30 to 50 mesh silica sand at a rate of 7 lb per 100 ft² into wet primer.
2	Tremco PUMA BC	20 ft²/gal	80	Allow 45 min to cure before proceeding.
3	Tremco PUMA WC with PUMA filler powder	95 ft²/gal	65	Broadcast 16 to 30 mesh silica sand to refusal. Allow 45 min to cure before proceeding.
4	Tremco PUMA TC	53-90 ft²/gal	17-30	Allow 60 min to cure before opening to traffic.

HYBRID

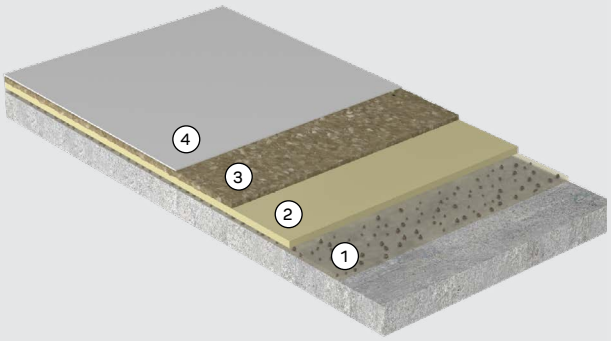
VULKEM® EWS TRAFFIC COATINGS

Rapid turnaround, high-performance coatings with tenacious adhesion and extreme abrasion resistance

PEDESTRIAN

PEDESTRIAN SYSTEM

Stadiums, Balconies and Pool Decks



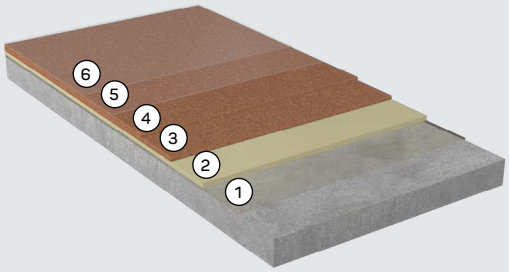
Product		Coverage Rate	Wet Mils	Comments
1	Tremco PUMA Primer	90 ft²/gal	17	Broadcast 30 to 50 mesh silica sand at a rate of 7 lb per 100 ft² into wet primer.
2	Tremco PUMA BC	26 ft²/gal	60	Allow 45 minutes to cure before proceeding.
3	Tremco PUMA TC	80-90 ft²/gal	17-20	Broadcast silica sand to refusal into wet TC. Allow 45 minutes to cure before proceeding.
4	Tremco PUMA TC	53-64 ft²/gal	25-30	Allow 45 minutes to cure before opening to traffic.

VULKEM® EWS TRAFFIC COATINGS

Rapid turnaround, high-performance coatings with tenacious adhesion and extreme abrasion resistance

DECORATIVE QUARTZ SYSTEM

Aesthetically Appealing Solution with Extreme Durability



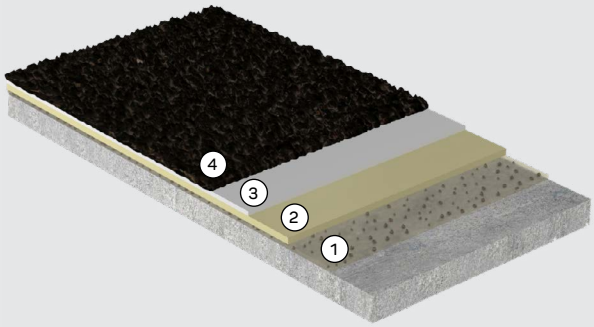
	Product	Coverage Rate	Wet Mils	Comments
1	Tremco PUMA Primer	90 ft²/gal	17	Broadcast 30 to 50 mesh silica sand at a rate of 7 lb per 100 ft² into wet primer.
2	Tremco PUMA BC	20 ft²/gal	80	Allow 45 minutes to cure before proceeding.
3	Tremco PUMA WC	80 ft²/gal	20	Broadcast color quartz to refusal. Allow 45 minutes to cure before proceeding.
4	Tremco PUMA WC	60 ft²/gal	25	Broadcast color quartz to refusal. Allow 45 minutes to cure before proceeding.
5	Tremco PUMA TC	80 ft²/gal	20	Allow 45 minutes to cure before opening to traffic.
6	Tremco PUMA TC	64 ft²/gal	15	Allow 45 minutes to cure before opening to traffic.

VULKEM® EWS HIGH-PERFORMANCE COATINGS

Rapid turnaround, high-performance coatings with tenacious adhesion and extreme abrasion resistance

HEAVY DUTY SYSTEM

Parking Structures affected by Snow Plows, Dumpster Areas and Loading Docks



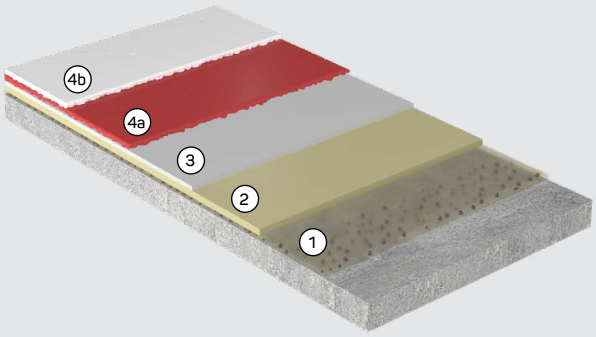
Product		Coverage Rate	Wet Mils	Comments
1	Tremco PUMA Primer	90 ft²/gal	17	Broadcast 30 to 50 mesh silica sand at a rate of 7 lb per 100 ft² into wet primer.
2	Tremco PUMA BC	20 ft²/gal	80	Allow 45 minutes to cure before proceeding.
3	Tremco PUMA WC with PUMA filler powder	16 ft²/gal	100	Broadcast aluminum oxide (bauxite) to refusal. Allow 45 minutes to cure before proceeding.
4	Tremco PUMA TC	53-90 ft²/gal	17-30	Allow 45 minutes to cure before opening to traffic.

VULKEM® EWS HIGH-PERFORMANCE COATINGS

Rapid turnaround, high-performance coatings with tenacious adhesion and extreme abrasion resistance

HELIPAD SYSTEM

Durable Solution with
Custom Color Options



Product		Coverage Rate	Wet Mils	Comments
1	Tremco PUMA Primer	90 ft²/gal	17	Broadcast 30 to 50 mesh silica sand at a rate of 7 lb per 100 ft² into wet primer.
2	Tremco PUMA BC	20 ft²/gal	80	Allow 45 minutes to cure before proceeding.
3	Tremco PUMA WC with PUMA filler powder	25 ft²/gal	65	Broadcast 16 to 30 mesh silica sand to refusal. Allow 45 minutes to cure before proceeding.
4a	Tremco PUMA TC	64 ft²/gal	25	Allow 30 minutes to cure before opening to traffic.
4b	Tremco PUMA TC	64 ft²/gal	25	Allow 60 minutes to cure before opening to traffic.

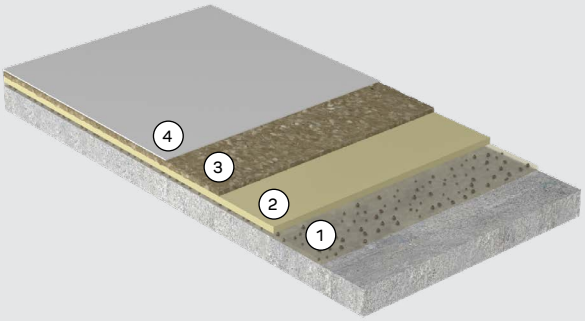
VULKEM® EWS SPECIALTY COATINGS

Long-term waterproofing solutions for water features and bonded overburden applications

WATER FEATURE

POOL DECK SYSTEM

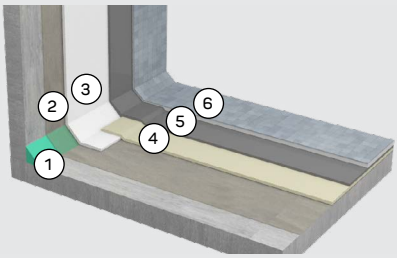
Pool Decks and Splash Pads



	Product	Coverage Rate	Wet Mils	Comments
1	Tremco PUMA Primer	90 ft²/gal	17	Broadcast 30 to 50 mesh silica sand at a rate of 7 lb per 100 ft² into wet primer.
2	Tremco PUMA BC	26 ft²/gal	60	Allow 45 min to cure before proceeding.
3	Tremco PUMA TC	80-90 ft²/gal	17-20	Broadcast silica sand or color quartz to refusal into wet TC. Allow 45 min to cure before proceeding.
4	Tremco PUMA TC	53-64 ft2/gal	25-30	Allow 60 min to cure before opening to traffic.

WATER FEATURE SYSTEM

Fountains and Decorative Water Features



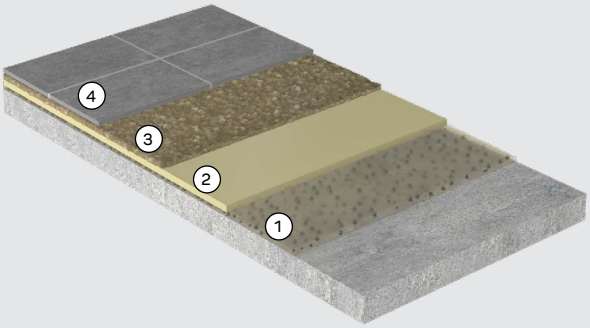
	Product	Coverage Rate	Wet Mils	Comments
1	Dymonic 100 or Tremco PUMA BC T	N/A	N/A	1" cant bead at all horizontal to vertical transitions.
2	Tremco PUMA Primer	90 ft²/gal	17	Broadcast 30 to 50 mesh silica sand at a rate of 7 lb per 100 ft² into wet primer.
3	Tremco PUMA BC R	20 ft²/gal	80	Allow 45 min to cure before proceeding.
4	Tremco PUMA BC/ BC LM	20 ft²/gal	80	Allow 45 min to cure before proceeding.
5	Tremco PUMA TC	80 ft²/gal	20	Allow 60 min to cure before proceeding. Optional: Broadcast 20 to 50 mesh silica sand into the wet TC to refusal if overburden will be applied.
6	Overburden (Optional)	N/A	N/A	Installed over Tremco PUMA TC sanded to refusal. See option in step 5.

VULKEM® EWS SPECIALTY COATINGS

Long-term waterproofing solutions for water features and bonded overburden applications

UNDER TILE SYSTEM

Tile, Pavers and Bonded Overburden



	Product	Coverage Rate	Wet Mils	Comments
1	Tremco PUMA Primer	90 ft²/gal	17	Broadcast 30 to 50 mesh silica sand at a rate of 7 lb per 100 ft² into wet primer.
2	Tremco PUMA BC	20 ft²/gal	80	Allow 45 minutes to cure before proceeding.
3	Tremco PUMA TC	53-90 ft²/gal	17-30	Broadcast 20 to 50 mesh silica sand into the wet TC to refusal. Allow 60 minutes to cure before proceeding with tile.
4	Overburden	N/A	N/A	Tile or pavers.

UNDER TILE

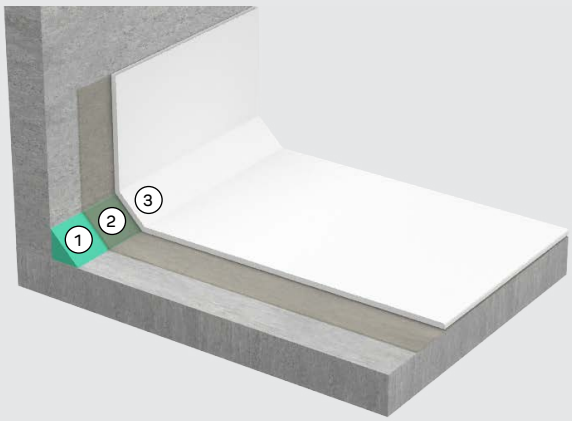
TREMPROOF® PUMA BELOW-GRADE WATERPROOFING

Premium systems for waterproofing concrete and protecting occupied space from water damage

FLASHING

FLASHING SYSTEM

Cold-Applied Flashing System Designed for Waterproofing Penetrations, Window Flashings and Block Trails



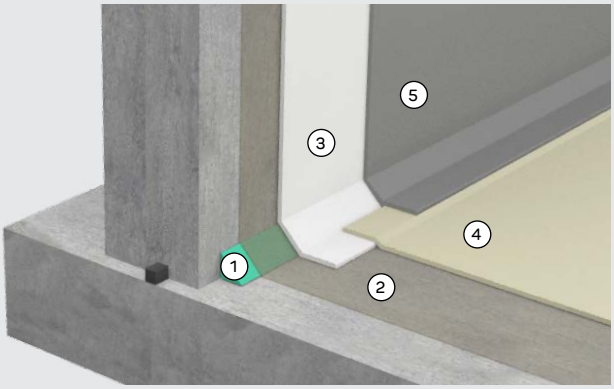
Product		Coverage Rate	Min. Wet Mils	Comments
1	Dymonic 100 or Tremco PUMA BC T	N/A	N/A	1" cant bead at all horizontal to vertical transitions.
2	Tremco PUMA Primer	90 ft²/gal	17	Broadcast 30 to 50 mesh silica sand at a rate of 7 lb per 100 ft² into wet primer.
3	Tremco PUMA Flashing	27 ft²/gal	60	Allow 45 minutes to cure.

TREMPROOF® PUMA BELOW-GRADE WATERPROOFING

Premium systems for waterproofing concrete and protecting occupied space from water damage

PLANTER SYSTEM

Enhanced Waterproofing for Planters without the Need for a Root Barrier



	Product	Coverage Rate	Wet Mils	Comments
1	Dymonic 100 or Tremco PUMA BC T	N/A	N/A	1" cant bead at all horizontal to vertical transitions.
2	Tremco PUMA Primer	90 ft²/gal	17	Broadcast 30 to 50 mesh silica sand at a rate of 7 lb per 100 ft² into wet primer.
3	Tremco PUMA BC R	25 ft²/gal	65	Allow 45 minutes to cure before proceeding.
4	Tremco PUMA BC/ BC LM	20 ft²/gal	80	Allow 45 minutes to cure before proceeding.
5	Tremco PUMA TC	105 ft²/gal	15	Allow 45 minutes to cure before proceeding.

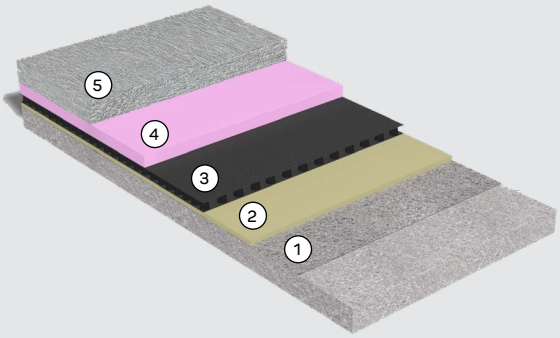
TREMPROOF® PUMA BELOW-GRADE WATERPROOFING

Premium systems for waterproofing concrete and protecting occupied space from water damage

HORIZONTAL

HORIZONTAL WATERPROOFING SYSTEMS

Split Slab, Paver Systems, Planters and Vegetated Roofs



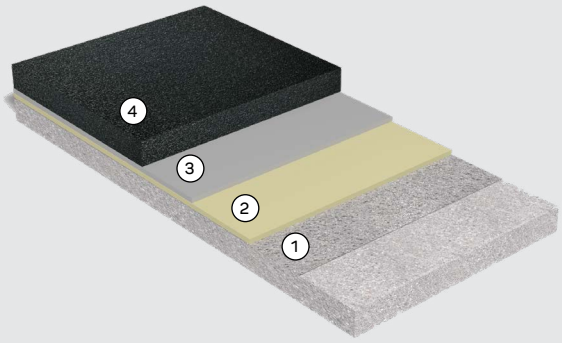
	Product	Coverage Rate	Wet Mils	Comments
1	Tremco PUMA Primer	90 ft²/gal	17	Broadcast 30 to 50 mesh silica sand at a rate of 7 lb per 100 ft² into wet primer.
2	Tremco PUMA BC	20 ft²/gal	80	Allow 45 minutes to cure before proceeding.
3	TREMDrain (optional)	N/A	N/A	TREMDrain 1000, TREMDrain 2000 or TREMDrain 6600 bonded to membrane with Dymonic 100.
4	Compatible Insulation (optional)	N/A	N/A	By others.
5	Overburden	N/A	N/A	Topping slab or vegetated roof.

TREMPROOF® PUMA BELOW-GRADE WATERPROOFING

Premium systems for waterproofing concrete and protecting occupied space from water damage

ASPHALT OVERLAY SYSTEMS

Below-Grade Waterproofing Solutions for Parking Structures



	Product	Coverage Rate	Wet Mils	Comments
1	Tremco PUMA Primer	90 ft²/gal	17	Broadcast 30 to 50 mesh silica sand at a rate of 7 lb per 100 ft² into wet primer.
2	Tremco PUMA BC	20 ft²/gal	80	Allow 45 minutes to cure before proceeding.
3	Tremco PUMA TC	64 ft²/gal	25	Broadcast 2.3 to 3.4 mm-sized silica sand at a rate of 2 lb per 10 ft². Allow 60 minutes to cure before proceeding.
4	Overburden	N/A	N/A	Asphalt.

ASPHALT OVERLAY

TREMCO®

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