

Top coat

\$175.00/gal

MONOCHEM

PERMASHIELD® PREMIUM

TECHNICAL
BULLETIN

MADE IN U.S.A.



Environmentally Friendly Graffiti Control System

PRODUCT DESCRIPTION:

ITEM NO. 5600, 5650

PERMASHIELD PREMIUM is the most advanced environmentally friendly formulation for Permanent Graffiti Control, utilizing an easy to use Graffiti Removal System. **PERMASHIELD PREMIUM** is intended for use on unpainted or painted concrete, masonry, stucco, prepared metal, EIFS, murals, signs and other surfaces. It creates a clear protective, UV resistant coating where graffiti tagging can be removed without affecting the appearance of the substrate.

ADVANTAGES:

- ZERO VOC; No fumes, no odor and no induction time
- 10 Year Unlimited Warranty for Graffiti Removals
- State and City Approved
- UV, Stain, Chemical and Hot Tire Resistant
- Available in a Clear or Pigmented System to match any architectural tone or finish
- Available in Matte (<5°) and High Gloss (80°-90°)
- Non-Yellowing, Non Chalking, Breathable

SYSTEM COMPOSITION:

A. UNPAINTED (NATURAL) SURFACES:

1. **AQUASEAL ME12** (1 Flood Coat)
2. **PERMASHIELD BASE COAT** (2 Coats)
3. **PERMASHIELD PREMIUM** (2 Coats)

B. PAINTED SURFACES:

1. Depending on the surface, apply one to two coats of **PERMASHIELD BASE** to create a pinhole free surface for the **PERMASHIELD PREMIUM**.
2. **PERMASHIELD PREMIUM** (2 Coats)
3. If the surface is only painted for part of the elevation, make sure to apply one coat of **AQUASEAL ME12** to seal the unpainted surface.

READ ALL TECHNICAL DATA SHEETS BEFORE PROCEEDING WITH THE APPLICATION.

SURFACE PREPARATION:

- A. Substrates to receive material must be clean and free from all dirt, rust, scale, bond-breakers, grease, moisture, efflorescence, lime, and other foreign substances which are detrimental to the adhesion and required appearance of the **PERMASHIELD PREMIUM SYSTEM**.
- B. Concrete, stucco and masonry must be cured at least 28 days. Level protrusions, and repair cavities, voids, holes, cracks, etc. that are larger than 1/16". If adhesion is an issue, sandblast, abrasive blast or acid etch dense, non-porous concrete.
- C. Freestanding walls require a treatment of **AQUASEAL ME12** on the unpainted/unsealed backside and sides. Horizontal puddle prone wall caps need to be sealed with a film forming, premium elastomeric coating, such as **MONOCHEM ULTRA-LASTIC**, to protect against water penetrating. A metal cap is another option. Sloped caps require an application of **AQUASEAL ME12**.

All below grade wall areas should be protected with a below grade waterproofing membrane such as **BLACK EMULSION** or **MONOCHEM 300**.

TECHNICAL DATA:

Solids by Weight (ASTM D2369)	55% ±2
Solids by Volume (ASTM D2697)	54% ±2
VOC Level (ASTM D3960)	Zero
Film appearance, Gloss 60° (ASTM D523)	90°
Film appearance, Matte 60° (ASTM D523)	4-6°
Mixed Viscosity @75°F (ASTM D2369)	85-90 KUs
Weight	96 Oz. Kit: 9 Lbs. 3 Gal. Kit: 28 Lbs.
Tensile strength (ASTM D412)	5950 PSI
Elongation (ASTM D412)	150%
Modulus @100% Elongation	4190 PSI
Hardness, pencil, 2 weeks (ASTM D530)	2 H
Taber Abrasion Resistance (ASTM D4060)	<45 mg loss/1000 Cycles
Impact Resistance (ASTM D2794) Reverse	160 In/Lbs
Moisture Vapor Transmission (ASTM 1653-03(2008))	5.99% perms
Chemical Resistance (ASTM D1308)	See Table 1

Accelerated Weathering (ASTM G154) 8000 hours
No blistering, chalking, gloss or color changes
Cyclic Weathering (AASHTO R-31)
No blistering, cracking, checking, softening or delamination.
Maximum change of 10 gloss level.

Salt Spray Resistance (ASTM B117) 5000 Hours
No coating wear, no blistering, no loss of adhesion.

REMOVAL TEST DATA: Using Monochem Citrus Clean Super 9800

Solvent Resistance (ASTM D5402)	Passes w/minimum 300 double rubs
Graffiti Resistance (ASTM D6578) (Level 3)	Exceeded performance requirement
Cleanability (ASTM C756) (Level 3)	No damage to coating, no color loss or change.
Pot life of mixture	1-2 Hours
Recoat Time	4-6 Hours
Dry through	8-12 Hours
Dry hard	48 Hours
Complete cure and hardness	5 Days

- D. **Non Ferrous (Ex. glazed, aluminum, stainless steel)**: Remove the zinc and oily film with a neutral detergent or emulsion cleaner. Acid etching with **MONOCHEM METAL ETCH** or blasting lightly with fine abrasives are also options. Then apply coatings within 3 hours.

- E. **Ferrous Metals (ex: metal, steel)**: Remove all loose rust, dirt, grease or other contaminants by one of the following depending on the degree of cleanliness required. Blast SSPC-SP3; SSPC-SP2; SSPC-SP6; SSPC-SP7. Blast lightly with fine abrasives or conduct a light etching. Then rinse using a Zinc treatment. A rust inhibitive primer is then required (within 3 hours) to go directly to the metal or steel.

We recommend using **METAL ETCH** to prepare any metal for painting. After using **METAL ETCH** rinse the surface using a Zinc treatment. All metal surfaces that were blasted or etched must be primed/coated within 3 hours.

COMPOSITION AND MATERIALS:

(For complete instructions refer to Each Product's Technical Data Sheets).

SEALER COAT: AQUASEAL ME12

AQUASEAL ME12: is a clear flat, water base, penetrating Silane/Siloxane water repellent. It must be applied to the entire exterior elevation (unless the surface is painted and sealed for the full

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GRAFFITI RESISTANT COATING 09960
PROTECTIVE COATINGSMONOPOLE INC.
UPDATED JUNE 2013

U.S. SPECIALTY COATINGS

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elevation) to maintain the integrity of the natural (unpainted) surfaces and to protect the **PERMASHIELD PREMIUM** application. **AQUASEAL ME12** protects against water seepage and allows for a more consistent application of the Graffiti Control System.

A. **AQUASEAL ME12** should be applied in a uniform manner. Each application coat consists of a light fog spray coat that wets the entire surface and breaks the surface tension. The fog spray coat must be followed immediately with a flood coat to achieve maximum penetration. Allow the material to run down 10 to 12 inches. Back rolling the run downs isn't required but will maximize the seal. A low pressure spray gun with a tip size of 0.035 inch is recommended. Allow 24 hours of dry time prior to applying **PERMASHIELD BASE**.

B. Coverage rates may vary considerably due to the porosity of the substrate. Always test and obtain approval from the project architect and/or building owner prior to starting the job.

C. The estimated coverage rate is approximately 50-80 square feet per gallon over porous concrete including mammoth block, standard block, split face block, old masonry brick, etc. Refer to our Technical Data Sheet for additional spread rates and information.

NOTE: For chalky concrete, stucco, plaster, and tilt-ups, substitute **AQUASEAL ME12** with **AQUABOND**. **AQUABOND** positive waterproofing cohesively binds chalky surfaces and is available in a clear finish. For detailed information and application instructions, please refer to the technical data sheet.

BASE COAT: PERMASHIELD BASE

PERMASHIELD BASE is a single component, water based aliphatic polyurethane designed to provide a pin-hole free surface for the **PERMASHIELD PREMIUM**. It can be applied to porous substrates such as split-face block, mammoth block, CMU, stucco, masonry and other permeable substrates.

PERMASHIELD BASE is available in both clear base and white base and can be tinted to any color.

Item No. 6100: Clear Base Item No. 6150: White Base

- A. For unpainted surfaces, apply two coats of **PERMASHIELD BASE** to create a pinhole free surface. Do not proceed to the **PREMIUM** topcoat if there are pinholes present after applying the **PERMASHIELD BASE**.
- B. For sound previously painted surfaces, apply one or two coats of **PERMASHIELD BASE** to maintain the natural look of the surface.
- C. **PERMASHIELD BASE** can be applied using a good quality roller, brush or airless sprayer with a tip size of .013-.017 inch. The estimated coverage rate is approximately 200 - 250 square feet per gallon, resulting in 2-3 dry mils thickness per coat (4-6 dry mils for 2 coats).
- D. Allow 1-3 hours dry time prior to applying the second coat. Apply the second coat after the milky-ness of the first coat clears. Allow 24 hours dry time before applying **PERMASHIELD PREMIUM TOP COAT**.
- E. Do not proceed to the **PERMASHIELD PREMIUM** topcoat until the surface is pinhole free.

TOP COAT: PERMASHIELD PREMIUM

PERMASHIELD PREMIUM is a clear 2-component, water base, aliphatic polyurethane top coat available in clear matte or clear gloss. **PERMASHIELD PREMIUM** must be applied to a smooth, pin-hole free surface.

MIXING INSTRUCTIONS:

- A. **PERMASHIELD PREMIUM** clear gloss or matte finish is a water based, 2-component aliphatic polyurethane top coat.
- B. Stir Part A only before blending. Do not stir Part B.
- C. Add Part B to Part A (already stirred); use an electric mixer to blend the two parts. Scrape all the Part B out of the can. Mix for 2 to 3 minutes. No partial mixing.
- D. The pot life of the mixture is 1 to 2 hours, depending on temperature.

E. Discard the unused mixture after 2 hours.

F. Do not blend new mixture with the old.

APPLICATION PRECAUTIONS:

- **CAUTION!** Do not apply thicker than 6 wet mils thickness to avoid micro blistering.
- In all applications, we require doing a test section to determine compatibility, adhesion, spread rates and appearance. All surfaces must be tested and approved by architect or project owner prior to doing the complete project.
- Do not apply to surfaces containing 15% or higher moisture content or hydrostatic pressure.
- Air and surface temperatures must be between 50°F. and 90°F during application.
- Sprinklers that come into contact with the application must be turned off for at least two days prior to and two days after application. Redirect the sprinklers so they do not make contact with the coatings.
- Do not apply in windy conditions.
- Do not apply to surfaces displaying a pH over 8.
- Protect the surrounding areas from overspray.
- Do not apply if rain is imminent within 48 hours.
- For application over previously painted surfaces, allow the paint to fully cure (at least 7-14 days; consult the paint's technical data sheet for exact cure time) before applying **PERMASHIELD PREMIUM**. Refer to Caution section on pg. 3.

APPLICATION:

A continuous application will ensure a smooth and level coat with no lines or streaks to disfigure the surface. The application should not be stopped part of the way across an area and completed later.

PERMASHIELD PREMIUM should be applied at an approximate rate of 200-250 square feet per mixed gallon, yielding 3-4 dry mils per coat. Two coats are required.

PERMASHIELD PREMIUM can be applied by brush, roller or an airless sprayer with a tip size of .013 to .017 inches. The spray tip should be new and not stretched from previous uses. Make sure to follow the spray application with an immediate back roll.

Allow 4-6 hours drying time (do not exceed 12 hours) prior to applying the second coat. After application, allow the **PERMASHIELD PREMIUM** to cure for a minimum of 48 hours in dry conditions. Allow up to five days for full cure and hardness (depending on temperature) before exposing the system to markers and spray paint tagging.

PERMASHIELD PREMIUM can be applied directly to properly prepared surfaces such as primed metal and previously painted water based epoxies and urethanes. Abrade and clean the previous water base coating to provide tooth for the **PERMASHIELD PREMIUM**. Always conduct a test patch to ensure the proper adhesion.

Note: For applications over horizontal surfaces, wood, steel or metal contact Monopole, Inc. for more information.

CLEAN-UP:

Do not allow **PERMASHIELD BASE** and **PERMASHIELD PREMIUM** to dry in the spray equipment. Empty spray equipment and wash with water while the material is fresh. Keep in mind the 1-2 hour pot life of **PERMASHIELD PREMIUM** (the mixture will thicken). Schedule your mixing, application and clean up accordingly.

MURALS.

PERMASHIELD PREMIUM can be applied over murals that are permanent and won't be touched up in the future. It is not suitable for application over painted murals classified by the Federal, State, or City Counties as "ART WORK" which are subject to continuing redesigned and refinish. It would be extremely difficult to remove this PERMANENT, NON-REVERSIBLE system in order to re-do the murals.

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LIMITATIONS:

PERMASHIELD PREMIUM does not seal inaccessible areas. It will not bridge cracks, fill large pores or compensate for flawed construction. Exposed walls must be capped and the backside of parapet walls must be sealed, flashings must be in place and weep holes and drains installed and functioning (where applicable).

REMOVER: CITRUS CLEAN SUPER

CITRUS CLEAN SUPER (#9800) is a water-miscible, easy to use, concentrated cleaner/remover. It is designed to remove and clean graffiti from surfaces that are protected with **PERMASHIELD PREMIUM Graffiti Control System**.

- A. Spray **CITRUS CLEAN SUPER** directly on the graffiti and allow 2 minutes of dwell time. Do not allow the cleaner to dry. Gently agitate with a stiff bristle nylon brush or nylon scour pad working the cleaner into the graffiti. Spray more cleaning solution to maintain a wet surface and to remove the dissolved graffiti. When the graffiti removal is complete and all graffiti is dissolved, flush the surface thoroughly with water to removal all residues. Do not flush the surface with water if the graffiti removal is incomplete. If the removal is incomplete and exposed to water, allow the water on the surface to fully dry for 1-2 hours (wipe the surface dry) before repeating the above steps.
- B. **CAUTION!** Do not allow **CITRUS CLEAN SUPER** or graffiti run downs (from cleaning the surface) to dry on the surface.
- C. **CITRUS CLEAN SUPER** is the required graffiti remover for **PERMASHIELD PREMIUM**. Do not use solvents or other chemicals such as MEK, lacquer thinners, etc.

WARRANTY:

Monopole Inc. warrants the **PERMASHIELD PREMIUM** Graffiti Control System for a period of 10 years as long as the substrate, application, and removal methods meet the guidelines. For the duration of the 10 year warranty no additional graffiti coatings will need to be applied. After each graffiti removal the warranty protects against yellowing, shadowing, ghosting, or chemical staining.

PERMASHIELD PREMIUM warranties are available on an individual job basis and must be approved prior to application. Contact Monopole's service department for further information. The warranty is only valid using **CITRUS CLEAN SUPER** as the remover.

WARRANTY REQUIREMENTS:

1. The purchaser must obtain a written specification letter from Monopole, Inc. prior to the application outlining the application, substrate, and removal methods.
2. The applicator shall warrant that they have applied the materials in compliance with Monopole Inc's written specifications and instructions upon application completion.
3. Attempts to remove graffiti defacing from a surface treated with **PERMASHIELD PREMIUM Graffiti Control System** must be performed according to the exact procedure explained on the technical bulletin and specification letter. No other chemical cleaners should be used except **MONOCHEM CITRUS CLEAN SUPER** or approved equal by Monopole, Inc.

SAFETY:

Contact with eyes can create irritation. If in contact, flush the eye area with water for 10 minutes. If swallowed, do not induce vomiting and consult a physician. Use in well ventilated areas. Keep the container tightly closed when not in use. Consult MSDS for additional details.

PACKAGING:

PERMASHIELD PREMIUM is available in a 96 OZ Kit or a 3-Gallon Kit. The volume mixing ratio is 2:1 (2 Parts A to 1 Part B).

96 OZ KIT: PART A: 64 OZ; PART B: 32 OZ

3-GALLON KIT: PART A: 2 GALLONS; PART B: 1 GALLON

5600-96OZ: Matte (96 Oz. Kit) 5650-96OZ: Gloss (96 Oz. Kit)

5600-03: Matte (3 Gallon Kit) 5650-03: Gloss (3 Gallon Kit) Product Qualifications / Approvals	
Cal Green	Yes
OTC (Industrial Maintenance)	Yes
SCAQMD (Industrial Maintenance)	Yes
CARB (Industrial Maintenance)	Yes
LEED (New Construction)	Yes
LEED (New Schools / CHPS)	Yes
LAUSD Exclusive Specification	Yes
Los Angeles RR	RR25080-T
MPI Approved Product	#105
CALTRANS	08-09-017
CALTRANS Office of Health and Safety Services	Yes
Nevada DOT (QPL Approved per SPEC. 502.02.05a)	Yes
Texas Type II Permanent, Water Cleanable Classification	Complies with
Anti-Graffiti Coatings	DMS-8111

TABLE 1

CHEMICAL RESISTANCE: (ASTM D1308)

MEK double rubs.....	300+ cycles (Level 5)
Skydrol	No effect after 7 days
Brake Fluid	No effect after 7 days
Gasoline	No effect after 7 days
Motor Oil	No effect after 7 days
Betadine	No effect after 24 hours
50% NaOH	No effect after 24 hours
14% NH4OH	No effect after 24 hours
10% Acetic Acid	No effect after 24 hours
10% H2SO4	No effect after 24 hours
10% HCL	No effect after 24 hours
10% Bleach	No effect after 24 hours
DI Water	No effect after 24 hours
IPA	No effect after 4 hours
Toluene	No effect after 4 hours
Acid Rain	No effect after 4 hours

Caution! Painted & Stucco Surfaces

PERMASHIELD GRAFFITI RESISTANT COATINGS are clear non-yellowing products and may be used over latex painted or unpainted surfaces. However, certain pigmented paint and color integrated stucco formulations contain a biocide that may create yellowing when top coated with a clear graffiti resistant coating. Yellowing can be severe and normally appears within 3-7 days of direct sunlight exposure, particularly during hot weather.

Allow freshly painted and stucco surfaces to fully cure (1-2 weeks minimum for paint and 28 days for fresh stucco) before applying a clear graffiti resistant coating. Consult the manufacturer of the paint coating and/or stucco to determine the full curing time.

To ensure proper results, we require applying a small test patch on each of the different paints and stucco surfaces prior to product application. It is very important that these test patches receive direct UV exposure. Allow the test areas 4-7 days of dry time in the direct sunlight and then check for ambering. Monopole is not responsible for yellowing, whitening, discoloration, or any other consequential damages associated with the application of our **PERMASHIELD GRAFFITI RESISTANT COATINGS**. The end-user shall determine the product's suitability and assumes all risks and liability.

WARRANTY INFORMATION: MONOPOLE believes that the information in this publication is an accurate description of the typical characteristics and/or uses of the product or products. But it is the end users responsibility to thoroughly test the product in the specific application to determine its performance efficacy and safety. Since use of this product is beyond our control, Monopole, Inc. cannot assume any risk or liability for results obtained when not used according to our specifications and directions. Unless MONOPOLE provides a specific written statement of fitness for a particular use, MONOPOLE'S sole warranty is that the product will meet its current sales specifications. MONOPOLE specifically disclaims any other expressed or implied warranty, including the warranty of merchantability and fitness for use. The exclusive remedy and MONOPOLE's sole liability for breach of warranty is limited to a refund of the purchase price or replacement of product proven to be defective. In no event shall the seller be liable for any loss of profits or other consequential damages. Under no circumstance will MONOPOLE pay labor charges.

RUST-OLEUM®

9900 SYSTEM ANTI-GRAFFITI WATER-BASED URETHANE

\$200.00 - gal.

DESCRIPTION AND USES

The High Performance 9900 System Anti-Graffiti Water-Based Urethane is a two component water-based aliphatic acrylic polyurethane finish. It is ideal for interior or exterior use to ease the removal of unwanted graffiti.

The 9900 System Anti-Graffiti Water-Based Urethane is a low VOC, low odor, water-based coating. It uses a UV stable, crystal clear polyurethane resin to allow for quick and easy removal of unwanted graffiti from its surface. It is suitable for use on a variety of substrates including concrete, brick, masonry, or previously coated surfaces. Most surfaces are protected with only a 2 or 3 coat application. The substrate must be completely dry at the time of application.

To remove unwanted graffiti use the High Performance Graffiti Remover.

PRODUCTS

1-Gallon	5-Gallon	Description
243506	243508	Crystal Clear
243507	243509	Activator

COMPANION PRODUCTS

High Performance Graffiti Remover

PACKAGING

Available in two sizes. Base and activator components are supplied in pre-measured short-filled containers.

Base and activator component are sold separately.

1-Gallon Activated

Base: 0.84 gal. (short-filled gallon)

Activator: 0.16 gal. (short-filled quart)

5-Gallon Activated

Base: 4.2 gal. (short-filled 5 gallon)

Activator: 0.8 gal. (short-filled gallon)

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Pure Strength® Cleaner/Degreaser, item #3599402, commercial detergent or other suitable cleaner. Mold and mildew must be cleaned with a chlorinated cleaner or bleach solution. Rinse thoroughly with fresh water and allow to fully dry. All surfaces must be dry at time of application.

PREVIOUSLY COATED: Previously coated surfaces must be sound and in good condition. Smooth, hard, or glossy finishes should be scarified by sanding to create a surface profile. The High Performance 9900 System Anti-Graffiti Water-Based Urethane is compatible with most coatings, but a test patch is suggested.

WARNING! If you scrape, sand or remove old paint from any surface, you may release lead paint dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

CONCRETE AND MASONRY: Hand or power tool clean to remove all loose or unsound concrete, masonry, or previous coating. Allow new concrete to cure for 30 days before coating.

MIXING

Premix base component before adding activator. Power mixing is preferred. Continue mixing while adding activator, then mix for an additional 2-3 minutes to a smooth, uniform consistency.

APPLICATION

Apply only when air and surface temperatures are between 40-100°F (5-38°C) and surface temperature is at least 5°F (3°C) above the dew point.

If applying over an existing coating, a test patch should be done to ensure coating compatibility.

Apply by brush, roller or spray. A minimum of two coats are required. Porous substrates may require additional coats.

Best results are obtained if the coating can achieve full cure (48 hours) before graffiti is applied. Graffiti applied prior to 48 hours may be difficult to completely remove.


EQUIPMENT RECOMMENDATIONS

BRUSH: Use a good quality natural or synthetic bristle brush.

ROLLER: Use a quality 3/8" nap lamb's wool or synthetic fiber roller cover.

AIR-ATOMIZED SPRAY:

Method	Fluid Tip	Fluid Delivery	Atom. Pressure
Pressure	0.055-.070	16 oz/min	40-60 psi
Siphon	0.055-.070	—	40-60 psi
HVLP	0.043-.070	10-12 oz./min.	10 psi at the tip

AIRLESS SPRAY:

Fluid Pressure	Fluid Tip	Filter Mesh
2200-3100 psi	0.011-0.013	100

THINNING

Not required.

CLEAN-UP

Soap and water.



9900 SYSTEM ANTI-GRAFFITI WATER-BASED URETHANE

PHYSICAL PROPERTIES

		GRAFFITI COATING
Resin Type		Acrylic isocyanate converted aliphatic urethane
Finish		Semi-Gloss
Solvents		—
Weight	Per Gallon	—
	Per Liter	—
Solids	By Weight	42%
	By Volume	40%
Volatile Organic Compounds*		<100 g/l
Recommended Dry Film (DFT) Per Coat		2 mils (50μ)
Wet Film to Achieve DFT		5 mils (125μ)
Theoretical Coverage at 1 mil DFT (25μ)		642 sq. ft./gal. (15.8 m ² /l)
Practical Coverage at Recommended DFT (assumes 15% material loss)		275 sq. ft./gal. (6.8 m ² /l)
Mixing Ratio		5.25:1 base to activator by volume
Induction Period		None required
Pot Life @ 77°F & 50% RH		2 hours
Dry Times at 77°F (25°C) and 50% Relative Humidity	Tack-free	2 hours
	Handle	4 hours
	Recoat	5 hours
	Full Cure	48 hours
Shelf Life		1 year
Safety Information	Contains	Lead-free
	Warning!	—

*Activated material.

Calculated values are shown and may vary slightly from the actual manufactured material.

The technical data and suggestions for use contained herein are correct to the best of our knowledge, and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.



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