



TK-PERMACLEAN: ANTI-GRAFFITI COATING

Meets Federal EPA's VOC Requirements

Division of Sierra Corporation
ISO 9001:2000 Certified

Technical Data

1. PRODUCT NAME

PERMACLEAN
1495 High Gloss
1496 Matte Gloss

2. MANUFACTURER

TK PRODUCTS, DIVISION OF
SIERRA CORPORATION
11400 West 47th Street
Minnetonka, MN 55343
952-938-7223
952-938-8084 (FAX)
e-mail: tksales@tkproduct.com
Website: <http://www.tkproduct.com>

3. PRODUCT DESCRIPTION

The Permaclean Anti-Graffiti Products feature unique blends of aliphatic urethane resins specifically formulated to protect various surfaces from graffiti vandalism.

All Permaclean products are single component, non-yellowing permanent coatings. No recoating after removal of the various types of products used to deface the surface is necessary. Spray paint, or lipstick, marker, nail polish or multiple component paint products will not adhere to the Permaclean protected surface.

USES:

All Permaclean products will work on a wide variety of surfaces: Masonry, brick, block, stucco, all types of wood, steel or previously painted surfaces. Areas prone to repeated tagging such as barrier walls, bridges, signs, parking ramps, transit facilities or any area that would require frequent removal of graffiti would greatly benefit from Permaclean's ability to withstand numerous cleaning. Harsh solvent, power washing or graffiti removal agents will not harm the Permaclean protective coating.

No further coatings are required after graffiti removal thus eliminating the additional cost of reapplying further protection.

Most types of graffiti can be removed by power washing, solvent cleaning or the use of graffiti removal agents.

Porous surfaces may require a scrubbing action to clean the graffiti

out of the pores. Permaclean is most effective, if allowed to cure for 14 days.

4. TECHNICAL DATA

Permaclean	1495	1496
Solids by weight	37.5	40.8
Solvent Type	Aromatic Blend	
Flash Point	40°F	40°F
V.O.C.	596 GPL	574 GPL
	4.97 PPG	4.78 PPG
Shelf Life	Six Months Closed Containers	
Desired Film Thickness-Dry	1 to 2 DFT	

- A.I.M. Category: Anti-Graffiti Coatings, Maximum VOC (See above chart).

- A.I.M. Definition: A clear or opaque high performance coating formulated and recommended for application to interior and exterior walls, doors, partitions, fences, signs and murals to deter adhesion of graffiti and to resist repeated scrubbing and exposure to harsh solvent, cleansers, or scouring agents used to remove graffiti.

5. APPLICATION

Before using this product, read the MSDS for complete safety information. Material Safety Data Sheets are available from TK Distributors, the TK Office and the TK web site.

All surfaces to be coated should be free of any foreign matter. Loose paint, oil, grease, dirt, etc. must be removed before application.

Ambient air temperature should not fall below 35°F or exceed 95°F for a period of 12 hours before and after application. The higher the relative humidity, the faster Permaclean will cure. Dry, low humidity conditions will prolong cure times.

It is recommended that TK-1450 Urethane Primer be used as a primer before application of either TK-1495 or TK-1496 Permaclean Anti-Graffiti Coatings. If not used, the substrate WILL magnify the differences in porosity

of the substrate. TK-1450 Urethane Prime seals the surface, which allows the matte finish to be uniform in appearance. TK-1450 Urethane Primer must be used over porous or previously painted surfaces to prevent pigment bleed. On bare concrete, TK-1450 must be used to eliminate a "wet look" and outgassing. Allow ample time for excess moisture from cleaning and acid etching to escape the concrete matrix; excess moisture in the concrete may lead to undesirable foaming or gassing in the film.

On unsealed, raw substrates, TK-1450 Primer must be used to prevent excessive absorption of Permaclean into the substrate and allow a protective film to form on the surface. When used over previous coated surfaces TK-1450 Primer may also be required to eliminate lifting or discoloring of the existing coating.

Due to the wide variety of surfaces requiring protection, a test application must be performed. Permaclean may alter the original appearance or color; obtain approval before continuing.

All Permaclean products may be applied by brush, roller or spray. Generally no thinning is required. When using airless spray equipment, tip sizes of .011 to .013 are recommended. All spray equipment should be flushed prior to use with xylene eliminating any moisture or foreign matter from the application equipment. A new material hose is recommended.

Once a container's seal is broken, that container must be used. Complete the entire job or plane without stopping and starting.

One thin coat not exceeding 4 wet mils will provide the proper protection required. Too heavy a coating may result in down glossing, sagging or runs. If a porous surface is encountered, a cross-hatch spray application may be required.

TK-PERMACLEAN
Anti-Graffiti Coating

7&9
PRODUCTS



TK
PRODUCTS
7&9

TK-PERMACLEAN
Anti-Graffiti Coating

Coverage Rates:**Actual**

1495	300-400 sq. ft. per gal.
1496	350-450 sq. ft. per gal.

Coverage rates are provided as a guideline only. Surface texture, porosity, weather conditions, etc. will determine coverage rates.

A test panel mock-up should be applied prior to project start up to determine coverage rates, appearance and proper results.

Clean Up:

Clean up all equipment or spills immediately with Xylene. Do not use water.

Precautions:

Danger! Extremely flammable Liquid and Vapor. Vapor and spray harmful. Overexposure may cause lung damage. May cause allergic skin and respiratory reaction, effects may be permanent. May affect the brain or nervous system causing dizziness, headache or nausea. Causes eye, skin, nose and throat irritation. Flammable liquid and vapor.

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. See MSDS for further information.

Individuals with lung or breathing problems or prior reaction to isocyanates must not be exposed to vapor or spray mist. Do not breath vapor or spray mist. Wear appropriate, properly fitted respirator (NIOSH approved) during application unless air monitoring demonstrates vapor/mist levels are below applicable limits. An airline respirator (NIOSH) approved is recommended. A vapor particulate respirator (NIOSH approved) may be appropriate where airborne monitoring demonstrates vapor levels below ten times the applicable solvent exposure limits. Follow respirator manufacturer's directions for respirator use. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Keep away from heat, sparks, and flame. Vapor may cause flash fire. Use only with adequate ventilation.

First Aid:

If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing

difficulty persists or occurs later, consult a physician and have label information available. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, get medical attention immediately.

6. AVAILABILITY

TK-Permaclean Anti-Graffiti Coatings are available through TK Distributors. Contact TK Products for the nearest distributor. Packaged in one and five gallon containers.

7. CONDITIONS OF SALE/ LIMITED WARRANTY

TK Products, division of the Sierra Corporation, warrants that its products conform to the label descriptions, are free from manufacturing defects, and are fit for the ordinary purposes for which such goods are used. Inasmuch as the use of TK Products' product by others and other factors affecting product performance are beyond TK Products' control, TK Products does not guarantee the results to be obtained. There are no warranties except as stated herein, either express or implied, including implied warranties of merchantability or fitness for a particular purpose. SHOULD ANY TK PRODUCTS' PRODUCT FAIL TO GIVE SATISFACTORY RESULTS, TK PRODUCTS WILL REPLACE THE PRODUCT, OR AT ITS OPTION, REFUND THE PURCHASE PRICE. THIS IS THE SOLE AND EXCLUSIVE REMEDY FOR ANY FAILURE OF TK PRODUCTS' PRODUCTS TO PERFORM AS WARRANTED AND SHALL ALSO CONSTITUTE LIQUIDATED DAMAGES IN CASE OF LOSS. UNDER NO CIRCUMSTANCES SHALL THE BUYER BE ENTITLED TO ANY OTHER REMEDY OR DAMAGES. REMEDIES FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED. TK Products does not authorize any person to assume for it any other liability in connection with the sale or use of its products unless specifically authorized by TK Products in writing.

8. TECHNICAL SERVICES

The TK office offers assistance with specifications, performance test data and field services.

9. FILING SYSTEMS

Information Handling Services
PO Box 1213
Englewood, CO 80150
Information Marketing Services

13271 Northend
Oak Park, MI 48237

TK DISCLAIMER:

Every effort has been made to ensure the accuracy of the above information and to avoid infringement of any patent or copyright. The information is based on field tests by government and private agencies, as well as lab tests, and on technical data from raw material manufacturers. The person(s) specifying or requesting the use of these products is responsible for assuring their suitability for a specific use, as well as the proper application of the products. Where there is any question as to the suitability of a particular product, a small test patch is recommended. See also CONDITIONS OF SALE/ LIMITED WARRANTY (Section 7) above.

FOR INDUSTRIAL USE ONLY

10/08