

PRODUCT INFORMATION

GEPOLY 2000

GENERAL: GEPOLY 2000 is a two-component (Polyamide-Epoxy), clear primer-sealer for cement and non-white quarry or ceramic tile surfaces. This coating is specially formulated to ensure optimum bond between the base and the new topping. GEPOLY 2000 is recommended for surfaces subject to a high degree of chemical attack, and is resistant to many highly corrosive conditions. This product also features excellent properties such as resistance to abrasion, impact resistance, flexibility and will exhibit retention of these properties on aging.

GEPOLY 2000 is adaptable to both new and old floors and will protect floors from wear, pitting, spalling and dusting. Moreover this product stops penetration of moisture, strong stains, grease, dirt, alkali and many acids. GEPOLY 2000 allows for lower maintenance costs and enhances the appearance of floors. Flow control agents have been incorporated into the formulation to ensure excellent leveling and "smooth" appearance. 'Part A' and 'Part B' are formulated so that a convenient

mixing ratio of one to one by volume will be possible.

BASIC USE: Typical areas of use are industrial plant floors, maintenance areas, roller skating rinks, airline hangars, aiseways, gymnasiums, theatres, convention centres and other floors of commercial and institutional buildings.

LIMITATIONS: GEPOLY 2000 is NOT recommended for:

(a) White or light colour quarry and ceramic tiles, vinyl, asphalt, and any other tile system affected

by aromatic hydrocarbons.

(b) Moist concrete slabs or tiles.

(c) Areas where availability of drying time and temperature conditions do not permit the use of this

coating. (Refer to Drying Time section)

(d) Floors not treated as per Surface Preparation section.

COMPOSITION: 'Part A' is an Epoxy Petroleum solvent-based product.

'Part B', referred to as a catalyst, is a Polyamide Petroleum -based product.

Both products, blended together, cure each other by a chemical reaction, providing temperature conditions allow the reaction to take place.

SURFACE PREPARATION:

Concrete to receive GEPOLY 2000 must be fully dry and at least 28 days old. Existing curing compounds and sealers over concrete or tiles must be chemically and/or mechanically removed prior to the application of GEPOLY 2000. For chemical removal of an existing curing compound or sealer, apply a liberal amount of G-711 Liquid Solvent-Type Sealer and Paint Remover at a rate of 2.5-3.5 m² / litre (115-160 ft² / gallon), depending on the surface finish of the area to be treated.

Allow remover to penetrate into the curing compound or sealer and watch for the following signs: softening, then blistering. When action is complete, apply a liberal amount of warm water on the surface. Agitate using a mop, then scrub and collect using a mop or a wet and dry vacuum. Rinse surface thoroughly with clear water and allow to dry. Inspect floor to ensure complete removal and

cleanliness. Repeat above method if required. In areas where it is not known or it is questionable whether any curing compound or sealer exists, it is wise to determine any presence of the above by testing, utilizing the removal procedure. *Note: For more information regarding application and cautions of G-711 refer to the Technical Data Sheet for this product SEE PAGE 2&3.*

G-711 contains cleaners and surface active agents which will also dissolve any oil, grease and dirt from the surface, making the job of degreasing easier. Mechanical removal of any sealers, paints and curing compounds by the sandblasting method should be considered whenever complete chemical removal is not possible or economical, and sandblasting is more suitable. Once any

curing compounds, sealers and paints are fully removed, or a test was done to ensure no presence of any of the above, it is necessary to remove oil, grease, fat, etc., from the surface by using a degreaser. C.G.S.B. 2GP-107M type cleaner/degreaser or our " G-500

CLEANER/DEGREASER

(our more powerful version) are both suitable for this treatment. Refer to the Technical Data Sheets of these products for application procedures and cautions. Rinse surface thoroughly with clear water following the above treatment.

Note: One litre of degreaser will be sufficient to treat 20-50 m² (900-2200 ft² / gallon), depending upon the soil conditions.

After degreasing treatment, an acid etch is necessary. Prepare a 5-10 % solution of Muriatic Acid in

water and apply a liberal amount over the surface by using a mop. Allow this solution to remain on

the surface for approximately 5-7 minutes, then mop solution and rinse surface with clear water. Acid etch will neutralize alkali contained in the degreaser and concrete and will provide a rough "sandpaper-like" finish. This will help the primer-sealer to penetrate more thoroughly into the surface and ensure optimum bonding.

Note: One litre of Muriatic Acid will be sufficient for 40-50 m² (1800-2300 ft² / gallon).

Allow surface to fully dry, at least overnight, and then vacuum to remove any dust or free particles prior to the application of GEPOLY 2000.

APPLICATION

Note: Refer to Limitations and Drying Time sections prior to any application.

Add 'Part A' to 'Part B' component (1 to 1 by volume) and mix thoroughly. Because of the limited pot life of the mixed formulation, do not mix more material than can be used during a working day. Allow mixed formulation to stand for 30-60 minutes before application. This initiates the reaction in the container and then the reaction continues on the floor. A thinner should not be required. For application equipment, use brush, cold spray, lambswool applicator or squeegee. Rolling is not

recommended as it has a tendency to incorporate air into the coating. Apply the first coat at a rate of 7-11 m² / litre (300-500 ft² / gallon), depending on surface porosity. Allow 8-10 hours at 22°C (72°F), or refer to Drying Time/Dry to Handle section, prior to any subsequent coats. Allowing the first coat to cure for more than 16 hours, at ambient temperature, will require light but thorough sanding of the surface before a subsequent coat. *Note: Use fine grade carbide sandpaper for sanding. Broom or vacuum the floor to remove dust particles after sanding.*

If GEPOLY 2000 is used as a primer for KOPOTHANE 2540, only one coat is required. Using this product as a sealer by itself, at least two coats must be applied with the second coat applied at a rate of 8-12 m² / litre (360-550 ft² / gallon). A third coat is optional but will provide more protection, last longer and should be applied as per second coat. Light traffic may be permitted after 24 hours of

drying. However, 7 days at ambient temperature are required for coating to develop full physical properties. Extreme caution is advised until such time that the coating is fully cured. Following application, and after inspection of the surface, any minor defects found can be repaired by sanding, cleaning and recoating these defective areas.

MAINTENANCE

GEPOLY 2000 surfaces are easy to maintain and only require regular mopping and occasional washing with conventional detergent. Throughout the service life of the coating, if any damages appear as a result of abuse or normal wear, repairs or resurfacing of GEPOLY 2000 is possible. Degrease area, sand surface and clean prior to resurfacing.

PRECAUTIONS

Both components of GEPOLY 2000 contain flammable solvents, therefore caution should be taken on storage and on the job site. It is highly recommended to work in well-ventilated areas. Do not smoke or handle any other source of ignition when working with GEPOLY 2000. Immediately flush with copious amount of clear water if eyes or skin are contacted.

Note: Refer to Health and Safety Data Sheet for more information.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

ODOUR AND APPEARANCE: Petroleum odour. Part A -clear liquid, Part B-yellowish thin liquid

% VOLATILE (BY WEIGHT): Part A - 38.5, Part B- 22.5, Mixture 30.50 ± 0.25

SPECIFIC GRAVITY: 0.93 ± 0.2 gm/cm²

FLASH POINT: 18°C Tag C.C.

FLEXIBILITY: Excellent

ABRASION RESISTANCE: Excellent

GLOSS: High

WEATHER RESISTANCE: Loses some gloss on exterior exposure without loss of protection

CHEMICAL RESISTANCE: Excellent. Resistant to most acids, bases, oils, salts, solvents, diluents

SERVICE TEMPERATURE: Dry 70°C. Wet 60°C.

SHELF LIFE: Unmixed: Indefinite. Mixed pot life: 24-48 hours at 23°C (73°F) *Note: Lower temperatures extend pot life, and warmer temperatures reduce pot life.*

DRYING TIME:*Note: Consider drying time and temperature limitations prior to scheduling a job. In atmospheric low temperatures mechanical supply of heat, using safe means (consider flammability of product), will give successful results.*

Dust free: 2-3 hours at 22°C (72°F)

Dry to handle: 6-8 hours at 22°C (72°F) , 5-6 hours at 27°C (80°F) , 4-5 hours at 32°C (90°F)

At temperatures of approximately 16°C (60°F) , cure proceeds slowly and may require 2-3 weeks before completion. At temperatures below 13°C (55°F) , curing is retarded.

Full cure: Physical properties will be fully developed in seven days at 22°C (72°F) .

THINNER: G.K. Lacquer Thinner may be used to reduce viscosity of product and/or to clean application equipment. Do not leave tools overnight after use as it will be difficult to remove cured material. Mineral Spirits and common weak solvents cannot be used for thinning or for cleaning application equipment.

STORAGE

Store in a cool, dry location. Keep containers closed and away from any source of ignition. Keep out of reach of children.

PACKAGING-AVAILABILITY

Both componets of GEPOLY 2000 are available in 1 U.S. gallon containers and in 11.35 litre (2.5 Imperial gallon) units which are supplied in 22.7 litre (5 Imperial gallon) containers for convenient blending of 'Part A' and 'Part B'. Other packaging is available upon request.

GEPOLY 2000 is marketed through G.K. Chemical Specialties Co. Ltd. and their dealers and distributors. Dealer and Distributor Lists are available from G.K. Chemical Specialties.

For pigmented systems ask for GEPOLY 1000

TECHNICAL SERVICE

For additional information and concerns regarding unique applications or specific projects, contact G.K. Chemical Specialties Co Ltd.

GURANTEE

G.K. Chemical Specialties Co Ltd. warrants that its products are of the quality represented in the product literature and labels, and are suitable for use in accordance with the company's recommendations. Since methods, times and conditions of use are beyond its control, this warranty is limited solely to the quality of the company's products. Replacement of such products that are proven defective will be at the manufacture's expense.