

SPECPLATE Floor Topping

Metallic Floor Topping

DESCRIPTION

SPECPLATE FLOOR TOPPING in an industrial metallic aggregate floor topping which provides heavy duty abrasion and impact resistance to existing or new concrete floors.

SPECPLATE FLOOR TOPPING combines clean, graded, iron aggregate with special cements and admixtures to increase abrasion resistance up to 8 times more than 4000 psi concrete.

FEATURES/BENEFITS

- High wear/abrasive resistance up to eight times more than plain concrete
- Dense surface resists penetration of oil grease and many industrial chemicals
- High strength with more than twice the impact resistance of plain concrete
- Lower maintenance costs through reduced absorption
- High/early strength for minimal downtime and faster floor turn around

SPECIFICATIONS/COMPLIANCES

Metallic Floor Topping: Areas subjected to severe abrasion, impact and heavy loads will have a heavy duty metallic floor topping applied as noted. Floor topping shall be free of rust, oil and non-ferrous metals and can be applied up to 2" thick. Approved product: SpecPlate Floor Topping.

APPLICATION

SPECPLATE FLOOR TOPPING should be applied to concrete that is at least 14 days old and has a minimum tensile-bond pull out strength of 200 psi in accordance with ASTM C 1583.. As a general guide to floor and slab construction refer to ACI 302. Topping application should incorporate thickened edges and perimeter pins or nails at all edges and joints to maximize durability and prevent curling.

All work should be done under roof in a controlled interior environment. Use experienced workman and adequate equipment for job size.

Prepare concrete with a scabbler, shotblasting, or milling machine to profile the surface to a CSP #7-8. Remove any unsound surfaces. Prime all surfaces to accept the topping with **SpecPoxy 1000** at 75-100 sq. ft. per gallon. Apply with a notched squeegee, broom, or roller to assure complete uniform coverage. Coverage will depend upon the condition and texture of the surface. Brush out any puddles leaving a uniform bonding coat.

Properly mixed SpecPlate Topping must be applied to the epoxy bond coat while still tacky. If the epoxy is allowed to dry, reapply fresh epoxy and repeat.

Mixing: A paddle-mixer is recommended for proper mixing. Add approximately 85% of the required water for a 3-4 bag batch. Add the SpecPlate Floor Topping and mix for approximately 2 minutes. Then add remaining water and mix thoroughly to achieve a 5" to 6" slump. Use approximately 5.0 pints of water (2.4 L) per bag. Proper preparation and personnel are required to assure a smooth continuous process. Contact SpecChem for 3000 lb bulk bag mixing.

Placing: Apply the mixed topping to the still tacky epoxy bond coat. Screed and bull float to the proper elevation. Apply **SpecFilm** to prevent rapid-drying of the topping.

Finishing: Float the surface, once the topping has stiffened enough to support the weight of a power float. When finishing, the appearance of surface blisters is an indication that trowelling is premature. Open the surface with a float and steel trowel finish when appropriate. Steel trowel finishing will provide most durable topping surface. Do not over finish.

Cure: Immediately after final finishing, mist with water and cover with polyethylene sheeting for a minimum of 7 days. After 7 days, remove excess water with a squeegee and spray apply SpecChem "SpecRez" curing com-

TECHNICAL DATA

Compressive Strength ASTM-C-109	SpecChem Floor Topping (mixed at 5.0 pints per bag)
24 hour	5000
3 day	7000
7 day	8500
28 day	12000

Coverage Rates

- 3/4" topping at 13.5 lbs. per sq. ft.
- 1" topping at 18 lbs. per sq. ft.
- 2" topping at 37 lbs. per sq. ft.

Yield

.23-.25 cu. ft. per 50lb. Bag
Thicken edges by 1/2" to 1" (1.3-2.5 cm) and square off to extend durability

NOTE: The data shown is based on controlled laboratory tests. Reasonable variations from the results shown above can be expected. Field and laboratory tests should be controlled on the basis of the desired placing consistency rather than strictly on the water content.



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APPLICATION (con't)

Control Joints: All exposed control and construction joints should be cut and filled with SpecPoxy C.J. or Rapidflex C.J.

Sealing: The following procedure is recommended to further protect the topping from penetration of oils and mild chemical attack.

- 1) Remove any residual curing compound with a citrus-based cleaner/stripper (i.e. **Orange Peel**)
- 2) Wash and allow to dry
- 3) Apply **SpecPoxy Sealer** as a penetrating epoxy sealer at 500 ft/gal. (12.3 m²/L) to the prepared slab.
- 4) An annual cleaning with Citrus Cleaner in conjunction with SpecPoxy Sealer will extend the long-term

PACKAGING

50 lb triple lined bag
3000 lb super sacks

LIMITATIONS/PRECAUTIONS

- DO NOT apply over concrete containing calcium chloride or chloride-based admixtures. Adhesion of the SpecPlate Floor Topping to the base slab is dependent upon proper timing, surface preparation and workmanship.
- DO NOT place at temperatures below 50°F(10°F) or where floor will be exposed to any material, such as acid or other material known to attack Portland Cement or iron. Do not use air-entrained agents. Total air should not exceed 3%..

Caution. Contains Portland Cement and sand. Cement will cause irritation. Avoid contact. Use of dust respirator, safety goggles and rubber gloves is recommended. Avoid prolonged contact with clothing. In case of contact with eyes, immediately flush with water for at least 15 minutes. Get prompt medical attention. DO NOT wear contact lenses when working with this product. DO NOT take internally. Keep out of reach of children.

Avoid hazards by following all precautions found in the Safety Data Sheet (SDS), product labels and technical literature. Please read this information prior to using the product.

SHELF LIFE

Shelf life of unopened bags stored in a dry facility is 12 months. Excessive temperature differential and/or high humidity can shorten the shelf life expectancy. Store in a cool, dry area away from direct sunlight.

WARRANTY

NOTICE-READ CAREFULLY CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.



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