TECHNICAL DATA SHEET

SpecPlate Floor Topping

Metallic Floor Topping

DESCRIPTION

SpecPlate Floor Topping is an industrial metallic aggregate floor topping that 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 4,000 psi concrete.

BENEFITS

- High wear/abrasion 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 turnaround

COMPLIANCE/STANDARDS

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

MIXING INSTRUCTIONS

A paddle mixer is recommended for proper mixing. Add approximately 85% of the required water for a 3–4 bag batch. Add SpecPlate Floor Topping and mix for approximately 2 minutes. Then add the remaining water and mix thoroughly to achieve a 5"–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 3,000 lb bulk bag mixing.

APPLICATION

SpecPlate Floor Topping should be applied to concrete that is at least 14 days old and has a minimum tensile bond pull-off strength of 200 psi in accordance with ASTM C1583. 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 workers and adequate equipment for the job size.

Surface Preparation: Prepare concrete with a scrabbler, shotblasting or milling machine to profile the surface to CSP 7–8. Remove any unsound surfaces. Prime all surfaces to accept the topping with SpecPoxy 1000 at 75–100 sq ft/gal. 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 Floor Topping must be applied to the epoxy bond coat while it is still tacky. If the epoxy is allowed to dry, reapply fresh epoxy and repeat.

Placing: SpecPlate Floor Topping has a work time of 20–25 minutes and a set time of 1 hour at 70 °F. 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 troweling is premature. Open the surface with a float and steel-trowel finish when appropriate. Steel-trowel finishing will provide the most durable topping surface. Do not over-finish.

Curing: 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 compound at 200 sq ft/gal.

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

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 (e.g., Orange Peel). Wash and allow to dry.

2) Apply SpecPoxy Sealer as a penetrating epoxy sealer at 500 sq ft/gal (12.3 m^2/L) to the prepared slab.

3) An annual cleaning with Citrus Cleaner in conjunction with SpecPoxy Sealer will extend the long-term performance of SpecPlate Floor Topping.

COVERAGE

Topping thickness	lb/sq ft	kg/m^2
3/4" (19 mm)	13.5	65.9
1" (25 mm)	18	87.9
2" (51 mm)	37	180.6

Yield per 50 lb bag..... 0.23–0.25 cu ft

Thicken edges by 1/2" to 1" (1.3–2.5 cm) and square off to extend durability.

TECHNICAL DATA INFORMATION

Compressive Strength, psi (ASTM C109, mixed at 5.0 pints per bag)

24 hours	3 days	7 days	28 days
5,000	8,000	9,500	12,000

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

LIMITATIONS

DO NOT apply over concrete containing calcium chloride or chloride-based admixtures. Adhesion of 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 °C) or where the floor will be exposed to any material, such as acid, known to attack portland cement or iron. Do not use air-entraining agents. Total air should not exceed 3%.

PRECAUTIONS

Caution: Contains portland cement and sand. Cement will cause irritation. Avoid contact. A dust respirator, safety goggles and rubber gloves are 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.

PACKAGING

50 lb (22.7 kg) triple-lined bag

3,000 lb super sacks

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Kansas City, MO 64108

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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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