

METZ KORODUR MONOLITHIC TOPPING



DESCRIPTION:

Metz Korodur Monolithic Topping is a factory-blended powder which is mixed with water on site and applied in an 8 - 15mm layer over fresh concrete to produce extremely hard wearing floors. This product includes Korodur 0/4 aggregate which is produced from high grade components comprising quartz and tough by-products from electro-metallurgical smelting processes. The engineered blend of different grain shapes and sizes results in a product with high tensile and compressive strength and outstanding abrasion resistance. Over 200 million square metres of KORODUR products have been installed worldwide.

FEATURES AND BENEFITS:

- Outstanding abrasion resistance, even under the most severe stress. Withstands fork-lift truck and other plant traffic.
- Slip resistant, even in wet or oily conditions.
- Resistant to petroleum, mineral oil and solvents.
- Non-rusting.
- Non-dusting
- Frost and de-icer resistant
- Not electrostatically chargeable

RECOMMENDED:

When applied by the monolithic method to fresh concrete in:

- Production Areas
- Workshops
- Parking Areas
- Hangars
- Cool Stores
- Loading docks and ramps, etc
- Superflat Floors

In warehouses, steel plants, parking garages, textile plants, food and beverage plants, paper mills, bus depots and large garages, waste water and sewerage treatment plants, automobile plants etc.

NOT RECOMMENDED:

- For areas exposed to acids, acid salts or other chemicals which attack Portland cement based concrete. Contact Metz for alternative products.
- For use on hardened concrete slabs. Consult Metz for details of the Korodur/Korotan system.

PHYSICAL PROPERTIES:

Korodur 0/4 Aggregate (DIN1100) (Wear resistant component)

(Typical Values)

Mohs Hardness:	8 to 9
Compressive Strength, MPa	> 80
Tensile Strength:	> 10
Wear Resistance, cm ³ /50 cm ²	< 5 (250% better than plain concrete)
Size Range, mm	0 to 4

COVERAGE:

Type of traffic	Topping Thickness	Metz Korodur Monolithic Topping kgs/sq.metre
Light	8 mm	18
Medium	10 mm	21
Heavy	15 mm	32



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INSTRUCTIONS FOR USE

1. Concrete Base

The base concrete should be placed in accordance with good concrete practice. The concrete should be mixed and laid according to the Cement and Concrete Association of Australia guidelines and shall have a minimum compressive strength of 30 Mpa and a maximum slump of 75 mm. The water to cement ratio should be the minimum consistent with the need to produce a fully compacted concrete without excess water coming to the surface. The concrete should be sufficiently plastic to allow screeding to an evenly graded but rough surface.

Note: The use of PCE (polycarboxylate ether) plasticizer in the concrete may adversely affect the bond of the Korodur topping.

2. Metz Korodur Monolithic Topping

The Metz Korodur Monolithic Topping must be applied the same day, immediately following the initial set of the base concrete. The interval between the pouring of the base concrete and the application of the Metz Korodur Topping will be dependent on the prevailing temperature and humidity. The topping should not be placed whilst surface moisture is present on the base concrete.

3. Mixing

Use standard concrete mixer .

Mixing Proportions:

1 x 20 kg bag Metz Korodur Monolithic Topping

2.1 - 2.7 litres of clean, drinkable water.

Note: Ensure you have the latest mixing instructions, refer www.metz.net.au for current data sheet version.

4. Application

The Metz Korodur Topping can be applied as soon as the base concrete has reached initial set, and all bleed water has evaporated from the surface. Place the mixed Korodur topping and screed off to the desired thickness.

5. Finishing

Power trowelling can be commenced after the initial set of the Metz Korodur Topping according to the required surface quality, power trowelling can be repeated with the trowelling blades at a progressively steeper angle. If no power float or power trowel is available, the application and finishing can be done manually. However, this should be avoided. Note, for a more slip resistant surface, keep the trowelling blades flat (do not increase angle).

6. Joints

Joints should be formed in the Metz Korodur Topping only where there are construction joints in the concrete base, or where specified by the Design Engineer.

7. Curing

It is essential that proper curing is carried out. Curing should commence as soon as the surface has hardened sufficiently to prevent damage. Carry out curing according to normal concrete practice.

Metz Korotex curing compound is available on a project basis.

8. Storage

Store in original containers in a cool dry place. Under them conditions minimum shelf life is 12 months.

Always ensure you have the latest data sheet version, refer www.metz.net.au

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