

METZ KORODUR DRY-SHAKE TOPPING



DESCRIPTION:

Metz Korodur Dry-Shake Topping is a ready to use, dry-shake surface hardener consisting of Korodur 0/4 hard aggregate and Portland cement which greatly improves the abrasion and impact resistance of concrete floors. Korodur 0/4 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 an aggregate with high tensile and compressive strength and outstanding abrasion resistance. Over 200 million square metres of Korodur products have been installed world-wide.

FEATURES AND BENEFITS:

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

RECOMMENDED:

As a dry-shake surface hardener applied to fresh concrete floors, both interior and exterior for

- Production areas and Workshops
- Parking areas and Hangars
- Loading docks and ramps etc.

In warehouses, cold stores, 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 very heavy wear areas or superflat floors Korodur laid by the monolithic method should be used. Contact Metz for details.

PHYSICAL PROPERTIES:

Korodur 0/4 Aggregate (DIN 1100) (Wear resistant component)

(Typical Values)

Mohs Hardness:	8 to 9
Compressive Strength, MPa	>80
Tensile Strength, MPa	>10
Size Range, mm	0 to 4

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Abrasion Resistance:	BS 8204 Class AR1 (Maximum wear depth 0.1 mm) "Chaplin Test"
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COVERAGE:

Type of traffic	kgs./sq.metre
Light	3
Light to Medium	5
Medium to Heavy	8

For very heavy traffic Korodur should be laid by the monolithic method - consult Metz for details.

COLOURS:

Standard Colour:	Grey
Special Colours:	Red, Black, Yellow and dark Grey manufactured to fulfill special orders.



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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.

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

Pour and screed off base concrete. A level surface is essential. Treatment with a power float is recommended to achieve this, and to provide the correct cement concentration at the concrete surface. Puddles of cement and/or water must be removed.

2. Application

Refer to the recommended coverage figures on the first page. The Korodur Dry-Shake Topping is sprinkled in two stages. Two thirds of the dry mix is sprinkled evenly onto the base concrete. The dry mix is allowed to absorb water from the concrete. This is indicated by the surface becoming darker in colour.

A power float is then applied to the surface. The remaining one third of the dry mix is then applied to the surface. As soon as the surface has darkened, a second power floating is commenced.

3. Finishing

As soon as the concrete is in the setting phase, that is the surface is no longer shiny, power trowelling should commence. 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 trowelling blades as flat as possible.

4. Edge Reinforcement

To achieve an edge reinforcement, the freshly trowelled concrete is excavated at the edges to form a wedge-shaped cavity. Mix Korodur Dry-Shake Topping with water to produce a stiff plastic mortar and fill the excavated edge. The sprinkling job can then commence.

5. Joints

Joints should be formed in the Korodur Dry-Shake Topping sprinkled surface only where there are construction joints in the concrete base, or where specified by the Design Engineer.

6. 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.

7. Storage

Store in original containers in cool dry place. Under these 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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