

LINING & REPAIRING



MATTCEM RPL

RCC waterproofing, lining, repairing & micro concrete

Description

MATTCEM RPL is blend of well graded aggregates, selected cements and active polymers. It is generally used to create a smooth surface in concrete lining works with high bonding strength & waterproofing property. It works effectively on crack or rip due to weathering that can damage concrete. It reduces the loss of water due to seepage. It controls the water logging which ultimately reduces logging problems and due to smooth surface it will increase water velocity in canal concrete lining works.

Advantages

- It has high compressive strength to withstand hydrostatic pressures
- It creates highly durable waterproofing concrete lining
- It has easy application as we have to add required quantity of water in powder
- It provides sufficient resistance against forces such as weathering and wearing.
- It can be easily repaired
- It reduces seepage losses in lining material
- It have high resistance to UV radiations
- It creates aesthetic view

Uses

- To level uneven new or existing surface
- To get smooth surface in lining works
- In areas where high resistance to hydrostatic pressure is required
- To increase efficiency of water flow in canal
To reduce water wastage due to seepage

Standard Compliance

- DIN 1048 PART-5, IS 1237-2012, IS 456, ASTM D7015 & D7105, ASTM G154 & G155.

Technical Information

PROPERTIES	RESULTS
Appearance	Grey powder
Self levelling	Yes
Density	2.10 g/cm ³
Workability time	20 to 30 min
Setting time	7 to 8 hours @ 25°C
Compressive strength (IS 456) (W/P ratio 0.150)	>20 N/mm ² @ 7 days >30 N/mm ² @28 days
Permeability % (DIN 1048 Part-5)	< 30 % as compare to control concrete
Bonding strength (ASTM D7015 & D7105M)	2.0 N/mm ²
Curing Compound	Self Curable
Deformability	Deformable
Abbrasive Resistance (IS 1237-2012)	< 2mm
Water Permeability	< 30%
UV Resistance (ASTM G154 & G155)	Yes
Minimum Thickness	7 mm
Maximum Thickness	15 mm
Surface	Good
Flowability test A) Priming Coat Avg. 3mm B) Top Coat Avg. 7mm	W/P ratio 0.180 W/P ratio 0.150

Method of Application

Surface preparation:

- Clean the surface from efflorescence, laitance, dirt and other loose material and new concrete should be cure. Weak surface and old concrete floor should be primed.

Application procedure:

- **For primer:** Mix 40 kg bag of MATTCEM RPL with 7.2 liter of water and apply using trowel.
- **For lining works:** Mix 40 kg bag of MATTCEM RPL with 6 liter of water with the help of mechanical mixer and Continue until a smooth creamy consistency is obtained.
- Pour the prepared mix onto the substrate, spread quickly with trowel and level the surface.
- If high spots or splashes of material occur on the surface these are best removed by the edge of a trowel after initial set.
- Leave the surface for full cure.

Coverage

- 65 sq. ft. @ 3 mm thick per 40 kg bag in priming coat.
28 sq. ft. @ 7 mm thick per 40 kg bag. (2nd Coat)

Packaging

- MATTCEM RPL is available in 40 Kg bag.

Storage

- Minimum 12 months shelf-life if kept under room temperature (27°C).

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