

METTEC betoNEX Slurry

DESCRIPTION

METTEC betoNEX Slurry is a ready – mixed, cementitious, in – depth waterproofing slurry consist of Portland cement, finely graded sand and active chemicals. It is applied as cementitious slurry to the pre - saturated surface of above and below concrete structures.

USES

- Waste treatment plants
- Wastewater treatment plants & sewage system
- Reservoirs
- Active or passive waterproofing
- Protection against water & moisture
- Underground structures and vaults
- Retaining walls
- Tunnels and bridges
- Swimming pools
- Roof decks and parking structures

TECHNICAL PROPERTIES

| | |
|---------------------------|-------------|
| Appearance | Grey Powder |
| Workability at 30°C (min) | Approx 30 |
| Setting Time at 30°C (h) | 1 - 2 |

SURFACE PREPARATION

The concrete surface to be treated must be clean free from laitance, dirt, paint, coating, voids, large cracks and other foreign matter. Water leaks must be stopped e.g. with **MettStop Plug**. Thoroughly moisten the substructure and it must be damp but not wet during application. Any surface water on horizontal surfaces must be removed before application of **METTEC betoNEX Slurry**.

PROPERTIES

- Becomes as intergral system
- Resist hydrostatic pressure
- Self – heal hairline cracks upto 0.4mm

- Can be applied on positive and negative side
- Resistant to aggressive chemicals
- Non toxic
- Can be applied on green and old concrete surfaces
- Does not required protection during backfilling or during placement of steel

PACKAGING

25KG pail

STORAGE

When stored in dry place in unopened, undamaged original packaging, the shelf like is 6 (six) months.

MIXING

Mix **METTEC betoNEX Slurry** powder with clean water to a creamy consistency in the following proportions;

For Brush Application

- + 5 parts powder to 2 parts water
- + 0.8kg/m – 1.2kg/m
- + 3 parts powder to 1 part water
- + 1.2kg/m

For Spray Application

- + 5 parts powder to 2 parts water
(ratio may vary with equipment type)
- + 0.8kg/m – 1.2kg/m

APPLICATION

METTEC betoNEX Slurry is applied with brush, suitable spray equipment or by dry sprinkling

BRUSH APPLICATION

Apply **METTEC betoNEX Slurry** with a semi – stiff nylon bristle brush or push broom (for large horizontal surfaces). Ensure that all cavities in the substrate are filled. Crosswise application: vertically bottom – up, then horizontally.

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SPRAY APPLICATION

METTEC betoNEX Slurry can be applied with a suitable spraying machine. For maximum spray pattern, it should be possible to adjust volume of product as well as air pressure and volume. The nozzle diameter is approx, 4mm. The first layer of METTEC betoNEX Slurry is applied in circular motion with spray nozzle held at a 90° angle to the substrate. The final layer can be left as a spray finish or treated to a specified finish.

DRY SPRINKLE APPLICATION

The concrete is poured, vibrated and screeded as usual. When the concrete to be treated starts to reach initial setting, the specified amount of METTEC betoNEX Slurry is broadcasted by hand using a sieve (mesh size of 1mm) or suitable spreader on to the concrete surface. The powder is then trowelled into the substrate until coverage is uniform and the specific finish is achieved.

BACKFILLING

Backfilling can be carried out 3 days after completion of the METTEC betoNEX Slurry treatment.

PLASTERING / COATING

Surfaces treated with METTEC betoNEX Slurry products which are to be coated or painted should be left cured for at least 28 days.

At the end of the curing period, prior to the application of coatings or paints, the surfaces should be saturated with water and neutralized with diluted hydrochloric acid. When a plaster or render finish is required on top of a METTEC betoNEX Slurry treatment, it is essential to apply a rough cast of sand and cement on the final METTEC betoNEX Slurry coat while it is still tacky. On hardened METTEC betoNEX Slurry surfaces, apply an appropriate bonding agent before rendering.

Decorative coatings applied on the passive water pressure side are recommended to be water vapour permeable.

CURING

Keep damp for at least 5 days and provide suitable protection against extreme weather conditions (e.g. sun, wind, frost) while setting. The freshly treated surface should be protected from rain for a minimum period of 24 hours.

WATER PONDING FOR RETAINING STRUCTURE

Filling can take place when the surface treatment has hardened sufficiently, usually not less than 14 days after application. However, if earlier filling is specifically required, filling may be considered after not less than 7 days, provided the surface is thoroughly checked for hardness.

TECHNICAL SUPPORT

| | |
|---------------------|------------------------------|
| Structure Element | Concrete Slab |
| Type Of Impact | + or – water pressure |
| Type Of Application | Dry sprinkle, brush or spray |
| Consumption | 1.2kg/m ² |

| | |
|---------------------|------------------------------|
| Structure Element | Concrete Slab |
| Type Of Impact | Moisture / no water pressure |
| Type Of Application | Brush or spray |
| Consumption | 0.8kg/m ² |

| | |
|---------------------|-----------------------|
| Structure Element | Concrete Walls |
| Type Of Impact | + or – water pressure |
| Type Of Application | Brush or spray |
| Consumption | 1.5kg/m ² |

| | |
|---------------------|----------------------|
| Structure Element | Construction Joints |
| Type Of Impact | Water pressure |
| Type Of Application | Brush in 1 coat |
| Consumption | 1.5kg/m ² |

HEALTH AND SAFETY

METTEC betoNEX Slurry should not be in contact with skin and eyes. Avoid inhaling of dust during mixing. Wear gloves, goggles and dust mask.

METTEC betoNEX Slurry is not a flammable material

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