

MASTERSEAL®

505

Rapid setting plugging mortar

Description

MASTERSEAL 505 is a rapid setting, plugging mortar supplied in powder form. It requires only the addition of water and hardens in a matter of seconds to seal leaks, even in running water.

Water flow can be stopped by mixing the MASTERSEAL 505 to a malleable consistency and using as a plug.

Typical applications

- Water retaining structures, basements, lift wells, inspection pits, tunnels and underground structures.
- Joint filling, concrete tunnel segments and pipes.
- Pointing and patch repairs prior to application of waterproof renders or the MASTERSEAL 501/502 crystalline waterproofing system.

Advantages

- Rapid setting - Typically 30 - 60 seconds.
- Easy to use - simply add water.
- Chloride free - no risk to steel reinforcement.
- Non-toxic - suitable for use in potable water systems.
- Premixed - giving consistent quality and results.

Composition

MASTERSEAL 505 is a fine grey powder consisting of selected Portland cements blended with activating chemicals and high grade silica aggregates.

Packaging

MASTERSEAL 505 is supplied in 5 kg units which will yield approximately 2.5 litres of mortar.

Applications procedure

Surface preparation:

Surface to be plugged must be clean and free from dust, oils, grease, laitance, curing compounds, residual mould oils or other contaminants that could impair adhesion.

Application:

1. To plug leaks under pressure chase out the area of the leak to a depth of 20mm and until water flow is free.
2. Using a gloved hand, pre-treat the surrounding area by applying the dry MASTERSEAL 505 powder until subsidiary seepage stops.
3. Prepare a plug of material by mixing powder with sufficient water to obtain a malleable consistency. Using a gloved hand, press the plug firmly into the main leak and hold it in place until set. If necessary, apply a further

amount of MASTERSEAL 505 powder onto the surface.

- Continue precautionary waterproofing using the MASTERSEAL 501/502 system.

Mixing instructions:

MASTERSEAL 505 can be mixed with either a clean rod or gloved hand to the desired consistency.

Mix only the quantity which can be used immediately.

Mix MASTERSEAL 505 powder with water in the ratio 3:1 by volume.

Watchpoint:

Under NO circumstances should water be increased beyond this ratio. Materials will have semi-dry mix consistency to allow for hydration to take place with leakage water.

Typical properties*

* Properties listed are only for guidance and are not a guarantee of performance.

Density:	1950 kg/m ³	
Strength	3N/mm ²	15 mins
development:		
	6N/mm ²	1 hour
	7N/mm ²	24 hours

Equipment care

Clean tools and equipment IMMEDIATELY after use with water. Hardened MASTERSEAL 505 can only be removed mechanically.

Storage

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Degussa's Technical Services Department. Shelf life is six months.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product is fully cured or dried). Treat splashes to skin and eyes immediately. If accidentally ingested, seek medical attention. Reseal containers after use. For further information including disposal instructions refer to the Material Safety Data Sheet.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Degussa representative.

Degussa reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality

All products produced by Degussa certified manufacturing facilities, are produced to conform to systems designed to meet internationally recognised quality standards.

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