

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 liters of mortar.

APPLICATION PROCEDURE:

SURFACE PREPARATION:

Surface to be plugged must be clean and free from dust, oils, grease, laitance, curing compounds, residual mold 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.
4. 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*

Density:	1950 kg/m ³	
Strength development:	3N/mm ²	15 mins
	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.

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STORAGE:

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air conditioned environment. shelf life up to six months.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Master Builders Solutions's Technical Services Department.

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 vapor 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 Master Builders Solutions representative.

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

QUALITY AND CARE

All Master Builders Solutions Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and Master Builders Solutions ESHQ recommendations.

* Properties listed are based on laboratory controlled tests.

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CONTACT

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Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

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