



MasterSeal® 590

Formerly Waterplug®

One-component, cement-based,
fast-setting water-stop repair mortar

MasterSeal 590 is a quick setting, hydraulic cement used to instantly stop running water or seepage through holes or cracks in concrete and masonry. It can also be used as an anchoring cement to secure bolts or posts vertically in concrete or masonry. It expands as it sets to lock into place, even under constant water pressure.

Information provided in this document is intended as a guideline for product use. Before using this product, download and read the full Technical Data Guide, including Mixing, Application and Safety details on the Master Builders Solutions website.

www.master-builders-solutions.com/en-us

SURFACE PREPARATION:

Undercut or square cut cracks or holes by cutting to a minimum depth and width of 3/4" (1.19 cm). Do not V cut. Surface must be clean and structurally sound. Remove all dirt, loose material, oil, grease and unsound concrete. If dry at the time of placement, keep substrate damp for at least 15 minutes, using a fine misting of water before and after placement.

MIXING:

Mix MasterSeal 590 powder with clean, potable water. Never use mixing water over 100 °F (37.7 °C). Use powder without adding any aggregates, chemical additives or admixtures. Add just enough water to mix rapidly by hand to a stiff, low-slump, putty consistency. Mix no longer than 30 seconds.

Mix only enough MasterSeal 590 that can be successfully placed within three minutes under normal conditions. Information on mixing and application of MasterSeal 590 in hot and cold weather can be found on the MasterSeal 590 Technical Data Guide on the Master Builders Solutions website. Do not retemper material after initially mixing.



Satisfactory results depend on selection of suitable product for intended use and compliance with instructions for surface preparation and application.

DOWNLOAD AND READ FULL TECHNICAL DATA GUIDE FOR MIXING, APPLICATION AND SAFETY DETAILS ON THE MASTER BUILDERS SOLUTIONS WEBSITE BEFORE USING THIS PRODUCT.

APPLICATION:

Force mixed MasterSeal 590 into crack or hole. Push firmly, using strong pressure and with minimum working, kneading, or rubbing. Hold in place (without twisting) until set is fully achieved. Do not remove trowel or hand pressure too soon, in order to provide some confinement to MasterSeal 590 expansion during set.

Just prior to final hard set, MasterSeal 590 may be "shaved" with a trowel until flush with the surrounding surface. Always shave from the center out, in the direction of the bond line. However, do not brush or trowel over surface or crack will not seal. Keep damp for at least 15 minutes.

Additional information on specific applications such as sealing junctions, stopping running water, sealing leaks in joints or cracks, or repairing construction faults can be found on the MasterSeal 590 Technical Data Guide on the Master Builders Solutions website.

SPECIAL INSTRUCTIONS:

To anchor steel bolts or posts in vertical concrete or masonry, drill a hole deep enough to properly secure bolt or post and large enough so there is at least 1/2" (13 mm) on all sides of bolt or post. Fill hole with MasterSeal 590 and pack so that entire hole is full. Immediately center bolt or post over hole and force into the putty-like MasterSeal 590. Pack MasterSeal 590 firmly around bolt or post; keep continuously moist for 15 minutes. Apply no pressure or stress to bolt or post for a minimum of 5 hours after placement.

TOPCOATING - Cured MasterSeal 590 repairs can be topcoated with MasterSeal 581, 582, 583 or 584 coatings, both modified with MasterEmaco® A 660 modifying admixture, as soon as an initial set is reached.

APPROXIMATE COVERAGE:

Volume: 15.6 in³/1 lb (254 cm³/0.45 kg)

Static cracks: 3/4" by 3/4" by 28"/1 lb (1.9 cm by 1.9 cm by 70 cm/0.45 kg). 10% coverage in tanks 50 gallons or greater

CLEAN UP, STORAGE AND DISPOSAL:

Promptly clean hands and all tools with warm, soapy water while product is still wet. Cured material may only be removed mechanically. Store unused product in its original can, tightly sealed. Protect from freezing. Dispose of this product in accordance with local, state and federal requirements.

LIMITATIONS:

- Do not apply to frozen or frost-covered surfaces.
- Do not apply to dynamic (moving) cracks or to fill expansion joints or control joints.
- Do not use as a surface-applied coating or as a parging material.
- Do not fill voids greater than 30 in³ (490 cm³) in a single lift.
- Do not use if hard lumps have developed in the powder.



Prepare the surface



Mix with water



Create a ball



Force into hole

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