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 BASF / Master Builders Solutions website.

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 ºF (37.7 ºC). 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.
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 ½” (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.

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.

Limited Warranty Notice:
BASF provides a limited warranty on its products. For the complete limited warranty statement please refer to the MasterSeal 590 Technical Data Guide on the Master Builders Solutions website.

Master Builders Solutions from BASF
The Master Builders Solutions brand brings all of BASF’s expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures. Master Builders Solutions is built on the experience gained from more than a century in the construction industry.

The know-how and experience of a global community of BASF construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve your specific construction challenges. We collaborate across areas of expertise and regions and draw on the experience gained from countless construction projects worldwide.

We leverage global BASF technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make you more successful and drive sustainable construction. The comprehensive portfolio under the Master Builders Solutions brand encompasses concrete admixtures, cement additives, chemical solutions for underground construction, waterproofing solutions, sealants, concrete repair and protection solutions, performance grouts and performance flooring solutions.