MasterSeal® 583
Formerly Super Thoroseal®
Waterproof Cement-Based Coating for Concrete, Brick and Masonry

MasterSeal 583 is a dry polymer modified portland cement-based coating used for sealing and protecting concrete and masonry substrates against water, dampness and seepage with a long-lasting, semi-smooth, decorative white finish.

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.

www.master-builders-solutions.basf.us

SURFACE PREPARATION:
Surface preparation is extremely important for proper adhesion. All surfaces to be coated must be clean and structurally sound. Chip, sand or shotblast, wet blast or high-pressure water wash to remove all foreign matter, dust, dirt, paints, oils, grease, coatings, laitance or any other surface contaminants. Roughen or brush blast extremely smooth surfaces such as precast and cast-in-place concrete to ensure good mechanical adhesion.

All static cracks or breaks, joints, voids or honeycombing larger than 1/32” should be cut out and repaired with MasterSeal 590 Hydraulic Cement or other BASF repair material. Form ties and other metal fragments must be removed and patched. If any doubt exists about the suitability of a substrate to receive MasterSeal 583, then a bond test should be conducted.

Concrete and/or masonry should be surface saturated dry. Consult the MasterSeal 583 technical bulletin for further details.

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 BASF / MASTER BUILDERS SOLUTIONS WEBSITE BEFORE USING THIS PRODUCT.
MIXING:
For best results, mechanically mix MasterSeal 583 with a slow-speed (400 – 600 rpm) 3/4” drill and mixing paddle. Gradually add the powder to the mixing liquid while drill is running.
A 35.05 lb. (15.9 kg) pail of MasterSeal 583 requires approximately 4 to 5.5 quarts of clean water. A 7 lb. (3.18 kg) pail of MasterSeal 583 requires approximately 1.1 quarts of clean water. Mix the material until a consistency of smooth, heavy batter is achieved. Allow the mixed MasterSeal 583 to rest undisturbed for a minimum of 10 minutes to fully wet out all the powder and fully activate the waterproofing elements. Remix the wet material and then apply to the substrate. When remixing, a small amount of mixing water may be added for better workability. The brush will stand up in the mixing container when the proper consistency is reached.

Pot life of the mix is 30 minutes, depending on temperature and relative humidity.

APPLICATION:
MasterSeal 583 may be applied by spray, using a fiber brush or broom. Spray application is recommended for large projects generally using a plasterer’s type spray gun, a diaphragm type or rotor-stator type pump. Apply the material on the substrate filling all pores and voids. It is essential that the first coat is well brushed into the substrate even if the application is by spray.

For a 35 lb. pail, the first coat should be applied at 160 ft² per 35 lb. pail. For a 7 lb. pail the first coat should be applied at 32 ft² per 7 lb. pail. Finish the coat with smooth horizontal strokes. Allow 6 hours between coats for drying time. Lightly dampen wall before applying second coat. If MasterSeal 583 is applied by brush or broom in the first coat, the second coat requires back brushing (perpendicular direction to the first coat) to achieve a good and uniform coating. For a 35 lb. pail, the second coat should be applied at 320 ft² per 35 lb. pail. For a 7 lb. pail, the second coat should be applied at 64 ft² per 7 lb. pail. For complete application guidelines reference the technical data guide for MasterSeal 583.

CURING:
In a dry environment, once the initial setting of MasterSeal 583 has started, the area must be maintained damp. This operation should be carried out with care to avoid inconsistencies of color.

APPROXIMATE COVERAGE:
For 35 lb. Pail:
160 ft² / 35 lb. (14.8 m² / 15.9 kg) bag as a base coat.
320 ft² / 35 lb. (29.7 m² / 15.9 kg) bag as a top coat.

For 7 lb. Pail:
32 ft² / 7 lb. (2.9 m² / 3.18 kg) pail as base coat.
64 ft² / 7 lb. (5.4 m² / 3.18 kg) pail as top coat.
Coverage will vary depending on surface texture and porosity.

CLEAN UP, STORAGE AND DISPOSAL:
Promptly clean hands and all tools with warm water while product is still wet. Cured material may only be removed mechanically.

Transport and store in unopened containers and keep in a clean, dry place protected from rain, dew and humidity. 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 MasterSeal 583 to surfaces that have not been properly cleaned or are unsound.
- MUST NOT be applied to painted surfaces.
- Do not apply MasterSeal 583 in the rain or when rain is expected before initial set has taken place, or to frozen or frost filled surfaces.
- Do not apply MasterSeal 583 when the room temperature or the substrate temperature are under 41 °F (5 °C), or when the temperature is below 40 °F (4.4 °C) or is expected to fall below 40 °F (4.4 °C) within 24 hours.
- For additional limitations, cautions and warnings, reference the technical data guide for MasterSeal 583.

Limited Warranty Notice:
BASF provides a limited warranty on its products. For the complete limited warranty statement please refer to the MasterSeal 583 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.