

COR+GARD® CHANNEL LINE Technical Data Sheet

PRODUCT DESCRIPTION

Cor+Gard® Channel Line is 100% solids, two component, 1:1 volume mix ratio, high modulus, rapid setting, gel consistency, moisture insensitive epoxy. It is designed to meet all uses for non-sagging consistency epoxies required by ASTM C-881 Type I, II, IV, V in Classes B & C with a formulation also available for the low temperature application requirements of Class A.

GENERAL USES

Due to its high strength, rapid set and gel consistency, Channel Line is used as a lining for manhole channels and benches, an adhesive for bonding of new concrete to old eroded or spalled concrete, vertical and horizontal surfaces, and a binder for aggregate to create a mortar for grouting and repairing vertical areas in damp or wet conditions.

- Lining manhole channels and benches.
- Bonding fresh concrete to hardened concrete vertically.
- Bonding of a variety of similar and dissimilar construction materials where a gel consistency will help fill voids or for vertical and horizontal applications.
- Grouting dowels, rebar and anchor bolts where non-sag material is necessary.

FEATURES

1:1 mix ratio by volume
Gel consistency
100% solids
Rapid setting
High strength
Moisture insensitive
Fast setting and curing

STANDARDS

ASTM C-881, Type I, II, IV, V, Grade 3, Class B & C

INSTRUCTIONS FOR USE

Surface Preparation:

All surfaces to be bonded must be sound and clean with no traces of contamination.

PHYSICAL PROPERTIES

Mix Ratio	1:1 by volume
Color	Gray
Consistency	Paste
Gel Time, 60 GR.	5-8 Minutes
Initial Set at 72°F	40 Minutes
Final Set at 72°F	24 Hours

CURED PROPERTIES

Compressive Strength (ASTM D-695)	11,200 PSI
Tensile Elongation (ASTM D-638)	2 %
Shore D Hardness (ASTM D-2240)	87 ± 5

CONCRETE BOND STRENGTH (ASTM C-882)

2 Hours at 72°F	1,500 PSI
2 Days at 72°F	2,150 PSI
14 Days at 72°F	2,350 PSI

The Physical properties contained herein were obtained under laboratory conditions at 72° F. Physical properties obtained under field conditions may vary due to environmental variables. Data are subject to reasonable deviation.

While Channel Line will bond to damp concrete, there should be no standing water. Best results are obtained on dry concrete. Hairline cracks or other defects should be opened by use of a masonry saw to provide a groove. Clean any loose material from cracks and adjacent area. All steel surfaces shall be wire brushed or sandblasted to remove previous coatings, rust or mill scale. Surface preparation should be limited to those areas that can be coated promptly, prior to the reformation of rust.

Mixing:

Stir each component separately. Carefully scrape the sides and bottom of container while mixing. Blend 1 part of A to 1 part of B by volume and mix completely using a slow speed drill with Jiffy mixer at a maximum 600 RPM for 2-3 minutes at 75°F. When preparing mortar/grout, add 1-part clean, dry, well-graded aggregate by volume using a slow speed electric drill with paddle.

Application:**As an Adhesive or Coating:**

Mixed material may be applied by brush, short nap roller or squeegee. Fresh concrete should be placed within one hour after coating when used as a bonding agent.

As a Grout:

Fill cavity with mortar, tamp and strike off level with surrounding surface. For bolt grouting contact your local representative for specific recommendations.

As a Mortar:

Place on surface, spread and rough level to desired thickness. Follow by troweling in one direction to uniform surface and appearance. Do not over work material. Keep trowel well lubricated with mineral spirits.

CLEANING

Prior to curing, Channel Line may be removed from tools and equipment using xylene, lacquer thinners or MEK.

PACKAGING

2-gallon units
10-gallon units
110-gallon units
22-ounce dual cartridges

LIMITATIONS/WARNING

Application at ambient temperature below 40°F is not recommended. Exposure to temperatures exceeding 150°F for prolonged periods is not recommended. Refer to material safety data sheet prior to use. Avoid direct contact with skin and eyes. Wash exposed skin area promptly with water. In case of eye contact, flood eyes repeatedly with water and call physician. Do not take internally. Harmful if ingested. Keep product out of reach of children.

STORAGE AND HANDLING

Shelf Life: When stored in a controlled environment in accordance to AP/M Permaform's recommendations and left in its original unopened container, Channel Line will maintain its designed performance characteristics for 12 months from date of manufacture. Storage: Keep from freezing; do not store in temperatures above 120°F.

TECHNICAL SERVICES

APM, LLC's Technical Service Department provides complete product and technical support.

QUALITY ASSURANCE & TESTING

Thickness readings may be verified with a wet gage at any random point of the newly coated surface. Any area found to be less than the minimum coating thickness shall immediately receive additional material and be retested. Visual inspection shall verify a smooth, glossy finish. When completely cured, the entire coated interior shall be tested at the prescribed voltage with a holiday detector for pinholes and voids in the presence of the owner's inspector. Any defects shall be marked and recoated.

SAFETY

If personnel entry is necessary for any reason, OSHA standards for confined space entry shall be strictly observed. Proper protective clothing and breathing apparatus shall be used to prevent direct contact with the liquid components or epoxy. Manufacturer's material safety data sheets shall be kept on site and the applicator shall ensure familiarization with this information and emergency procedures.

WARRANTY AND DISCLAIMER

The technical data herein provided is compiled from laboratory specimens in accordance with ASTM Standards. Test results from specimens made in the field may vary. Although this data is believed to be reliable, APM, LLC makes no warranty express or implied, and further disclaims any liability as to the suitability of this information to a particular end use. This product is intended for use solely by our certified applicators.

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