



CHEM-CRETE TERRA FOAM CCC528

Hydro Active Soil Stabilization Polyurethane Grout

PRODUCT DESCRIPTION

Chem-Crete Terra Foam CCC528 is a two component, low viscosity 100% solids and hydro active polyurethane grout, used for soil stabilization and increasing the bearing capacity of sandy soils.

Chem-Crete Terra Foam CCC528 is hydro active, reacts quickly in contact with water to expand into a tough closed cell polyurethane foam.

FIELDS OF APPLICATION

Chem-Crete Terra Foam CCC528 is extensively used for Soil Stabilization and increasing the bearing of sandy soils. It can be used around tunnel headings to improve the bearing and tunneling characteristics of the soil structure. Chem-Crete Terra Foam CCC528 is used in application such as:

- Airports and Airfields
- Sands dune, pipe lines, etc.
- Highways and roadways, to prevent soil erosion on the bounds.
- Tunnels, bridge sides, etc.
- Power plants, sub-stations, etc.

PRODUCT FEATURES

- Two components ready-to-use work packs.
- Solvent-free.
- Hydro active, only reacts upon contact with water.
- Expands to a tough closed cell polyurethane foam.
- Low viscosity, permits reliable penetration.

PACKAGING

Product	Packaging
CHEM-CRETE TERRA FOAM CCC528	5 Gallon (19.93 Liter) Pail
	55 Gallon (208.19 Liter) Drum

TECHNICAL DATA

Physical Properties for Uncured Product - Foam:

Property @ 25°C (77°F)	Value	Test Method
Solids	100%	-
Viscosity	50 cps @ 25 °C	Brookfield
Color	Brown	-
Density Lb/Gal (Kg/L)	9.5 (1.14)	ASTM D1475
Flash point °F(°C)	288 (142)	COC Method

Physical Properties for Uncured Product - Accelerator:

Property @ 25°C (77°F)	Value	Test Method
Viscosity	7 cps @ 25 °C	Brookfield
Color	Clear	-
Density Lb/Gal (Kg/L)	7.9 (0.95)	ASTM D1475
Flash point °F(°C)	320 (160)	COC Method

Physical Properties for Cured Product:

Property @ 25°C (77°F)	Value	Test Method
Density Lb/Gal (Kg/L)	9 (1.08)	ASTM D1475
Tensile Strength, Psi (MPa)	150 (1)	ASTM D695
Compressive strength, Psi (MPa)	1560 (10.6)	ASTM D695

Reactivity: Upon mixing the accelerator with Chem-Crete Terra Foam CCC528, the mixture becomes extremely sensitive to moisture and water. The reactivity activates immediately upon contact with moisture or water.

Reactivity*: @ 1% (37 gm)

Temperature	Time
@ 20°C (68°F)	5 minutes and 20 seconds
@ 30°C (86°F)	4 minutes

*Values are also available @ 0.5% and 1.0%

Chemical Resistance Chart:

Environment	Appearance
Ethylene Glycol 100%	No change
Isopropanol 100%	No change
Heptane (Gasoline) 100%	No change
JP-4 through 8 Fuel 100%	No change
Carbon Tetrachloride 100%	Slight Darkening
Methyl Ethyl Ketone 100%	Swelled 20-30%
Tuluol 100%	No change
Hydrochloric 2%	Moderate darkening & Slight fragmentation
Acetic 2%	No change
Sulfuric 2%	Moderate darkening, Intact
Sodium Hydroxide 1%	Moderate darkening & Slight fragmentation
Potassium Hydroxide 1%	Moderate darkening, 25% dissolved
Sodium Chloride (Salt Water)	No change
Ammonium Sulfate 2%	No change
Potassium Chlorate 5%	No change
Hydroxide (pH 13)	No Influence
Sodium Carbonate (pH 13)	No Influence
Chloride Dioxide (pH 2)	No Influence
Free chlorine in water (pH 2)	No Influence
Phosphoric acid (22%)	No Influence
Gasoline	No influence
JP-4 through 8 fuel (100%)	No influence
Nitric Acid	No influence
Hydrochloric acid	No influence
Lactic acid	No influence
Acetic acid	No influence
Toluene	No influence
Sodium hydroxide (Saturated)	No influence
Water	No influence

APPLICATION DATA

Limitations: Application at ambient temperature below 4.4°C is not recommended. Exposure to temperatures exceeding 65.5°C for prolonged periods is not recommended.

Job Preparation: Drilled holes should be vacuumed and flushed with water. Sediment may cause blockages. Wider cracks may have to be sealed on the surface using Chem-Versatile. For stabilization applications, consult our technical department.

CLEANING

Remove uncured Chem-Crete Terra Foam CCC528 from tools and equipment with a suitable solvent such as Xylene. Toluene or Blended solvents immediately after use. Cured material may only be removed mechanically.

STORAGE

Chem-Crete Terra Foam CCC528 is sensitive to moisture and to high storage temperatures. We recommend storage at 5°C to 15°C under dry conditions. Storage temperature should not exceed 27°C.

SAFETY PRECAUTIONS

After hardening thoroughly, Chem-Crete Terra Foam CCC528 is physiologically harmless.

Keep the resin and hardener away from the eyes mouth and skin. Do not breathe in the vapors. The uncured mixture can cause irritation of the skin. For best protection, wear rubber or

plastic gloves. In case of contamination, wipe away resin or hardener immediately from the skin using paper towels and then wash with soap and water or hand cleaning detergent.

TECHNICAL ASSISTANCE

Please contact International Chem-Crete Corporation for Technical Personnel.

WARRANTY

LIMITED WARRANTY: International Chem-Crete Inc. warrants that, at the time and place we make shipment, our materials will be of good quality and will conform to our published specifications in force on the date of acceptance of the order.

DISCLAIMER: The information contained herein is included for illustrative purposes only and, to the best of our knowledge, is accurate and reliable. International Chem-Crete Inc. is not under any circumstances liable to connection with the use of information. As International Chem-Crete Inc. has no control over the use to which others may put its products, it is recommended that the products be tested to determine the suitability for specific applications and/or our information is valid in particular circumstances. Responsibility remains with the architect or engineer, contractor and owner of the design, application and proper installation of each product. Specifier and user shall determine the suitability of the product for specific application and assume all responsibility in connection therewith. AM25319.

Manufactured By:



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