

Description

Ceilcote 165 Grout is a carefully blended, three component vinyl ester grout. It is designed for grouting pumps, vessels and equipment that are subjected to chemical exposure.

Ceilcote 165 Grout is composed of catalyst, resin and aggregate parts which, when combined, form an extremely durable material. The aggregate granules are carefully selected and blended to reach the optimum balance between high strength and flowability.

Typical Uses

- Chemical Pump Pads
- Process Equipment
- Chemical Storage Tanks
- Structural Steel Supports
- Pedestals

Advantages

- Excellent chemical resistance
- Superior adhesion and elongation compared to polyester grouts
- Low exotherm system

Chemical Resistance

CEILCOTE 165 Grout has excellent resistance to solvents, acids, caustics, oils, water, and various chemicals. Information on the chemical resistance properties will be furnished on request.

Substrate

The substrate must be dry, strong and free of contamination.

Surface Preparation

Concrete surfaces must be roughened to remove all laitance. Recommended procedure is to chip the concrete to expose aggregate. Concrete surfaces must be clean.

Use degreaser to remove oil from steel. Abrasive blast all metal surfaces where a grout bond is desired. Build forms at least one inch above the bottom of equipment frame. Apply two coats of paste wax to forms. Be sure forms are completely sealed.

Application

CEILCOTE 165 Grout is a three-component grouting compound consisting of resin, hardener and aggregate.

Pour 165 Hardener into Resin, stir well. Pour resin/hardener mixture into mortar mixer. Add clean, dry aggregate gradually while mixing. Mix until all particles are wetted out.

Pour the grout from one side in order to prevent any air entrapment underneath equipment or plates. If required, flow may be helped under the equipment base with the use of rods, thin plywood strips, or similar tools. Do not add water or solvents to any of the components.

Mixing Ratio

	By weight	By volume
165 Grout Resin	100	2.05 gal (7.75 liter)
#2 Hardener	2	5.75 oz (170ml)
165 Grout Aggregate	555	2 bags (50# ea.)

Grout pour depth should not exceed 2 inches in order to minimize any cracking. Grout surface may be smoothed by hand troweling and then lightly brushed with styrene. Do not remove forms until the grout has cooled. Keep grouting area protected from sudden temperature changes for 48 hours after grouting.

Handling Properties

Working Time

Temperature	Grout
50°F (10° C)	120-180 minutes
70°F (21° C)	60-90 minutes
90°F (32° C)	45-60 minutes

Time to Place in Service

Temperature	At 10,000 psi
50°F (10° C)	36 hrs.
70°F (21° C)	24 hrs.
90°F (32° C)	16 hrs.

Coverage

Grout 0.89 cubic feet per 118 lb. unit
(0.02m² per 54kg unit)

Packaging

The following standard packages are available
 CEILCOTE 165 Grout 2.05 gal unit (7.75 liter units)
 165 Grout Liquid 2.05 gal (7.75 liters) pail (18 lbs (8kg))
 #2 Hardener 5.75 oz. (170ml) bottle

Order separately:

CEILCOTE 165 Aggregate 50 lb. (23kg) bags*

* Use 2 bags per unit

Storage

Store in a cool, dry and covered location away from fire hazards and direct sunlight. Minimum shelf life at 70° F (21° C) for each component is indicated below:

CEILCOTE 165 Grout 4-6 months
 CEILCOTE 165 Aggregate Indefinite, if kept dry

Higher temperature will shorten the shelf life of these products.

All liquid products are to be stored in a frost-free place.



Safety

Store in cool, dry area (50 - 90°F [10-32°C]) away from direct sunlight, flame or other hazards.

CEILCOTE 165 Grout contains vinyl ester resins, styrene monomer. The hardener is an organic peroxide. The products components have been formulated to optimize physical lining characteristics while minimizing hazardous physical and health factors encountered during application. A concerted effort is made to be aware of the latest chemical toxicological information and to apply this knowledge in a responsible manner to insure product safety.

During application of 165 Grout materials always wear gloves and appropriate work clothing to minimize contact. Ventilation is required with special consideration for enclosed or confined

area. Air movement must be designed to insure turnover at all locations in work area and adjacent areas to avoid buildup of heavy vapors. Use caution when handling flammable liquids, eliminate sources of ignition from work area and containers with residues.

Product Material Safety Data Sheets are available and should be consulted when handling products. These products are for industrial and professional use only; application directions must be followed.

Maintenance Periodically inspect the applied material and repair localized areas as needed. Consult your CEILCOTE representative for additional information.

Technical and Physical Data

	Test standard	Unit	Value
Generic Type			Silica filled, vinyl ester
Density	ASTM C905-96	lb./cu.ft. (g/cc)	132 (2.12)
Compressive Strength	ASTM C579-96 Method B	psi (Mpa)	13,700 (94.4)
Tensile Strength	ASTM C307-94	psi (Mpa)	2,400 (16.5)
Tensile Bond Strength (to steel)	ASTM D4541-93	psi (Mpa)	2,400 (16.5)
Tensile Bond Strength (to concrete)	ASTM D4541-93	psi (Mpa)	500 (3.5) exceeds the strength of concrete
Coefficient of Thermal Expansion	ASTM C 531-95	in.in°F (C)	15.3 x 10 ⁻⁶ (27.5 x 10 ⁻⁶)
Impact Strength			Better than concrete
Abrasion Resistance			Better than concrete
Flash Point resin hardener		°F (°C°)	86 (30) 175 (80)

Important Note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to law) any loss or damage arising out of the use of the product. WE HEREBY DISCLAIM ANY WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local International Paint representative that this data sheet is current prior to using the product.

Issue date: 18/06/07

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