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A GIBRALTAR INDUSTRIES COMPANY 

# CIA-GROUT 7425 DATA

## PRODUCT DESCRIPTION.....

Covert Operations CIA-Grout 7425 is a high-strength, 3-component, 100% solids, flowable epoxy grouting system. It is designed to be used in structural grouting applications involving precision support of base plates and crane rails for use in vibratory and impact areas, between precast concrete members, and for grouting studs, bolts, and reinforcing bars especially in large oversize holes or deep embedment. Achieves exceptional compressive strength in as little as 24 hours.

## COMPOSITION.....

CIA-Grout 7425 is a special blend of Bisphenol-A Epoxy combined with state of the art modified polyamine curing agents, and a specially formulated aggregate designed to maximize flow ability, strength, and working time. This unique combination results in a chemical, impact, and vibration resistant product that can cure in large masses without excessive heat build-up and consequent expansion and shrinkage during curing. The cured grout is able to withstand ongoing impact loading at elevated temperatures.

## GENERAL USES.....

CIA-Grout 7425 is ideally suited for many structural grouting applications requiring strength and durability including:

- Precision grouting of base plates for heavy equipment such as turbines, generators and pumps to elevated temperatures as high as 150 degrees with a load of 2,000 psi.
- Grouting of crane and other types of rail
- Foundations for vibratory and impact applications such as engines, mills, pumps, compressors, etc.
- Grouting between structural precast concrete members & anchors connecting precast elements.
- Anchoring allthread, rebar, threaded rebar, headed bolts and studs, etc. especially in large embedment and/or oversized holes
- Suitable for all grouting applications requiring full bearing contact and no shrinkage

## FEATURES.....

- Impact and vibration resistant
- Achieves high effective bearing areas
- Excellent chemical resistance properties.
- High strength, 100% solids epoxy materials
- Low exotherm formulation with extended application life
- Aggregate does not need to be held back for proper flow
- High bond and tensile strengths to concrete, steel, masonry, & wood with excellent modulus properties
- Easy to use, cost effective, and reliable grouting system
- Conveniently pre-proportioned to eliminate guesswork
- High flowing, self-leveling mixture
- Water clean-up, no strong odor

## ENGINEERING DATA AND MATERIAL SPECIFICATIONS.....

(ASTM C579, Method B)	Compressive Strength	7000 psi 13000 psi 14000 psi	24 hours @ 72OF 24 hours @ 100OF 7 days @ 72OF
(ASTM D638)	Tensile Strength	2400 psi	7 days cure
(ASTM C307)		1600 psi	
ASTM C580)	Flexural Strength	5600 psi	
(ASTM C580)	Flexural Modulus	1.54 x 10 <sup>6</sup>	
(ASTM C882)	Bond Strength	2900 psi	(5500 psi concrete failure)
(ASTM D638)	Modulus of Elasticity	2.7 x 10 <sup>6</sup>	
(ASTM C531)	Shrinkage	0.050%	

(ASTM C531)	Coefficient of Thermal Expansion	16.1 x 10 <sup>-6</sup> in/in/°F
(ASTM C884)	Thermal Compatibility w/ Concrete	Compatible
(ASTM C1181)	Creep at 400 psi and 140°F	0.0025 in/in
(ASTM D2471)	Working Time	4 Hours @ 75°F
(ASTM D2471)	Exotherm Cyl. at 75°F	(2" x 4") 86°F Max (6" x 12") 107°F Max
Effective Bearing Area		>95%

#### **PACKAGING AND MIX RATIO.....**

- 1/2 Cubic Foot Unit (Resin & hardener in two pails, one bag aggregate)
- 2 Cubic Foot Unit (Resin & hardener in one multi-compartment pail, four bags aggregate)

#### **CONSISTENCY:**

Flowable epoxy grout  
Working Time: 4 Hours @ 75°F

#### **MATERIAL STORAGE.....**

Optimum storage temperature is between 70°F and 85°F. Prevent material from freezing. Condition material to rated temperature prior to mixing.

#### **SHELF LIFE.....**

1 year in properly stored, sealed, unopened containers in factory delivered condition.

#### **CLEANING.....**

Wash tools regularly with water before cure. Using an aggressive stripping agent such as Dzolv can clean tools left contaminated with cured epoxy. Wash hands frequently with water or use a waterless hand cleaner and then apply a barrier cream for added protection. An excellent cleaner is ZEP MVP or Orange Glo. Do not wear clothing soiled with epoxy next to your skin.

#### **LIMITATIONS.....**

Conditioning product to rated application temperatures is important. It is recommended that all components be conditioned to appropriate temperatures before mixing starts. Mixing and applying product below the rated temperature range will inhibit the flowability of the grout. Mixing and applying product above the rated range will reduce the working time. For best results, apply material to a clean and dry substrate. See installation sheet for more information.

#### **PRECAUTIONS.....**

Always use and wear protective clothing, gloves, and safety glasses when handling this and any other chemical product. Read warning notes on product package and refer to Material Data Safety Sheet (MSDS) prior to use.  
Note: Uncured epoxy resins contain some materials that are toxic before cure. Aggregate contains respirable silica. Consult MSDS and follow OSHA and other applicable health standards.

#### **JOBSITE ASSISTANCE.....**

A Covert Operations representative should be contacted before the beginning of the grout placement to evaluate the project conditions. A mock up can be provided to demonstrate the performance of the CIA-Grout and provide training on the proper preparation and installation techniques. A Covert Operations representative or inspector approved by the engineer should be on site at the time of the actual grout placement to provide technical assistance.

#### **WARRANTY.....**

United Steel Products Company warrants its products to be free from defects in material and workmanship. Said products are further warranted as to adequacy of design, provided products are used in strict accordance with United Steel Products Company's current published design limits and are installed in a workmanlike manner. (Said warranties do not apply in the event products are cut, notched, welded, drilled or in any way altered). No warranty applies if deterioration occurs due to environmental conditions. United Steel Products Company's obligations under this warranty shall be limited to the replacement or repair of those products demonstrated to be defective. Such remedy shall constitute Customer's sole and exclusive remedy and Customer hereby agrees that no other remedy (including, but not limited to claims for INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, OR ANY CAUSE, LOSS, ACTION, CLAIM OR DAMAGE, INCLUDING LOSS OF TIME, WHATSOEVER, OR INJURY TO PERSON OR PROPERTY OR ANY OTHER CONSEQUENTIAL DAMAGE OR INCIDENTAL OR ECONOMIC LOSS) shall be available to Customer whether said claims be asserted on the basis of warranty, negligence, strict liability or otherwise. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL SUCH OTHER WARRANTIES BEING HEREBY EXPRESSLY EXCLUDED.