

LOCTITE[®] PC 9410[™]

Known as LOCTITE® FIXMASTER® Magna Crete® November 2015

PRODUCT DESCRIPTION

LOCTITE[®] PC 9410[™] provides the following product characteristics:

Technology	Magnesium phosphate-based		
Appearance	Gray liquid (mix to desired consistency)		
Components	Two components - requires mixing		
Cure	Room temperature cure after mixing		
Application	Flooring & grout		
Specific Benefits	 Easier to work with Applicator friendly Fast setting Cure temp.: -25°C to +45°C 		

LOCTITE[®] PC 9410[™] is a unique, two-component, rapid setting concrete repair and grouting system that outperforms conventional concrete repairs. A high performance, magnesium phosphate-based system, LOCTITE[®] PC 9410[™] cures faster than concrete, and unlike concrete, it bonds to new and old concrete as well as most construction materials including wood and steel. Since LOCTITE[®] PC 9410[™] does not use a water additive, this repair system can be applied at virtually any temperature without shrinkage and is freeze/thaw and deicing salt resistant. This product is typically used for the repair of concrete highway walls, pot holes, airport runways, anchoring machinery, commercial refrigeration floors, loading docks, grouting bedplates and soleplates, columns and bridgedecks, parking structure joints, concrete pillars, floor repairs, ramps, rail grouting, anchoring bolts and handrails. This product is typically used in applications with an operating range of -50°C to 1,100°C.

TYPICAL PROPERTIES

Coverage, 3.8-liter	0.45 m ² @ 0.64 cm thick/4.54 kg
(1-gallon)	(4.8 ft ² @ 0.25 in thick/10 lb)
Coverage, 19-liter (5-gallon)	2.0 m ² @ 0.64 cm thick/20.4 kg (21.6 ft ² @ 0.25 in thick/45 lb)

TYPICAL CURING PERFORMANCE

Set Time, ASTM C-807, minutes:	
Initial	3 to 11
Final	15 to 22
TYPICAL PROPERTIES OF CURED MATERIAL	

Physical Properties

Coefficient of Thermal Expansion, AS	STM C-531, K ⁻¹ 1	.1x10 ⁻⁰
--------------------------------------	------------------------------	---------------------

TYPICAL PERFORMANCE

Compressive Strength: After 2 hours	N/mm² (psi)	17 to 21 (2,500 to 3,000)
After 3 days	N/mm² (psi)	28 to 41 (4,000 to 6,000)
After 28 days	N/mm² (psi)	48 to 55 (7,000 to 8,000)
After 1 year	N/mm² (psi)	90 (13,000)

Directions for use

- 1. **Preparation:** For best results, surface must be clean, dry and free from loose material. Remove all dirt, blacktop tar, and oil substances from the area to be covered, leaving a rough clean surface
- 2. Forms: If forms are needed, use plastic or Formica
- 3. **Mixing**: To mix material, add aggregate to activator and mix thoroughly. Add only enough activator to obtain the consistency desired for the application. Mix approximately 3.8 liters of activator to 20.4 kgs of aggregate (approximately 1:5 ratio). Material should be mixed immediately prior to placement and should be completed soon as possible
- 4. Deep Pours: For repairs greater than 2.5 cm in depth, up to 5 kgs of dry pea gravel can be added for each 20.4 kgs of Magna-Crete® as a filler. Dry pea gravel should be added to the activator before the Magna-Crete® aggregate is mixed. For large applications, use PC 7257 Summer to manage the set time for additional working time. NOTE: The addition of pea gravel may reduce compressive strength
- 5. Water: Work areas can be damp, however, standing water should be removed. Water should not be used to dilute the liquid or to adjust consistency of Magna-Crete®
- 6. **Top Coat:** Applying a top coat to LOCTITE[®] PC 9410[™] is not recommended unless the material is allowed to cure for 30 days. If a top coat is required, an epoxy based concrete repair product, such as Loctite PC 9416 Floor Fill, is recommended



- 7. Cold Weather Application: Set-up time will be longer in colder applications. For those applications where the application temperature is less than 7°C use COLD WEATHER MIX (one 0.45 kg package per 20.4 kgs of Magna-Crete® increases the cure speed by approximately 10 minutes) to accelerate the set time of the mixed material. Addition of the Winter additive should be made after the Magna-Crete has been thoroughly mixed, and just prior to the application or pouring of the Magna-Crete
- 8. Warm Weather Application: For applications where the application temperature is greater than 29°C, use HOT WEATHER MIX (one 0.45 kg package per 20.4 kgs of Magna-Crete® decreases the cure speed by approximately 10 minutes) to manage the exothermic reaction and the working time of the mixed material. The Summer additive should be thoroughly mixed into the liquid portion of the Magna-Crete. The Magna-Crete can then be mixed, and applied/poured
- 9. Clean-up: Keep an adequate supply of water on hand to wash mixer and tools as soon as set begins 9 to 15 minutes at 20°C

GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet (SDS).

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product package labeling.

Optimal Storage: 8°C to 21°C. Storage below 8°C or greater than 28°C can adversely affect product properties.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Henkel representative.

Conversions

 $\begin{array}{l} (^{\circ}C \times 1.8) + 32 = ^{\circ}F \\ kV/mm \times 25.4 = V/mil \\ mm / 25.4 = inches \\ \mum / 25.4 = mil \\ N \times 0.225 = lb \\ N/mm \times 5.71 = lb/in \\ N/mm^2 \times 145 = psi \\ MPa \times 145 = psi \\ M\cdotm \times 8.851 = lb\cdotin \\ N\cdotm \times 0.738 = lb\cdotft \\ N\cdotmm \times 0.142 = oz\cdotin \\ mPa\cdots = cP \end{array}$

Disclaimer

The information provided in this Technical data sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. Any liability in respect of the information in the Technical data sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.



In case products are delivered by Henkel Corporation, or Henkel Canada Corporation, the following disclaimer is applicable:

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Trademark usage

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. (B) denotes a trademark registered in the U.S. Patent and Trademark Office.

Reference 1.7