Technical Data Sheet

LOCTITE® PC 7257™

Known as LOCTITE® 7257™ and LOCTITE® Magna-Crete
September 2022

PRODUCT DESCRIPTION

LOCTITE® PC 7257™ 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 7257™ 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 7257™ 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 7257™ 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 bridge decks, 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 (1 gallon)	0.45 m² @ 0.64 cm thick/4.54 kg (4.8 ft² @ 0.25 in thick/10 lb)
Coverage, 19 liter (5 gallon)	2.0 m² @ 0.64 cm thick/20.4 kg (21.6 ft² @ 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, ASTM C-531, K^{-1}	11×10^{-06}

TYPICAL PERFORMANCE

Compressive Strength:

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

GENERAL INFORMATION

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

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 HOT WEATHER MIX 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 7257™ 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.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

Storage

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

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

Disclaimer

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