

# Concrete Repair and Chocking

## Rebuilding and Protection of Concrete / Chocking of Machinery

### Why use LOCTITE concrete repair compounds?

Our concrete repair products are designed to rebuild, repair and protect concrete structures and floors from mechanical damage and chemical attack. They bond to concrete, wood, glass, steel and other construction materials and guarantee fast, reliable and long lasting repairs.

Typical applications include ramps and loading areas, support beam and footer repairs, bridge decking and supports, concrete bunds and walls, floor and tank protection etc.

### Rebuild and Repair



Damaged



Restored

Use LOCTITE PC 7257 or LOCTITE PC 7204 to restore concrete. Both products can be applied horizontally, vertically and overhead.

### Protection



Unprotected



Protected

Use LOCTITE PC 7277 to protect concrete against chemical attack. Easy to apply by brush, roller or spray equipment.

Traditional repair methods such as repairing floors or walls with conventional concrete need extensive time for curing. Alternatively, LOCTITE concrete repair products are easily mixed, applied and cured on the same day.

### Key Benefits

- Easy to apply
- Chemical resistant
- Quick drying time compared to traditional methods
- Reduces repair time, labour costs and downtime
- Can be applied at temperatures even below 0°C
- Can be applied on damp surfaces
- Does not shrink or crack
- Can be coloured with standard cement colouring powders



## Why use LOCTITE marine chocking?

LOCTITE marine chocking is a two-component epoxy system recommended for the installation of main engines and other equipment in the marine industry. It is used to build a foundation for devices like engines, gear boxes, winches etc. not only in ships, but also in general industrial plants.

### The product achieves:

- 100% surface coverage
- Equipment alignment
- High compressive strength
- Long term durability

It is specifically developed for chocking marine main propulsion and auxiliary machinery. Other shipboard applications include: stern tube and strut bearings, pintle and rudder bearings, pedestal bearings, steering gears, stern winches, engine room pumps, cargo pumps, cable penetrations, large ball or roller bearings, bow thrusters and anchor windlasses.

### Key Benefits

- Self levelling, fast curing, non shrinking
- Excellent chemical and vibration resistance
- Excellent compressive strength
- Eliminates need for precise preparation of machine surface
- Decreases shock induced noise of machinery

### Approved By

- BUREAU VERITAS
- GL/DNV
- Lloyd's Register
- ABS
- RINA
- Russian Maritime Register of Shipping
- PRS
- MAN

### Traditional Method vs. Modern Solution

	Concrete	LOCTITE PC 7202 Marine Chocking
Compressive strength	Low	High
Tensile strength	Low	High
Chemical resistance	Low	High
Cure time	7 – 21 days	24 hr @ 25°C
Drying time	28 days	24 hr
Adhesion to steel / metal	None	Very good
Layer thickness	–	10 – 100 mm

# Concrete Repair and Chocking

## Product Table

What is your application?

Solution

Rapid setting grout

**LOCTITE PC 7257**



Colour

Grey

Service temperature range

-26°C to +1,090°C

Mix ratio by volume / weight (A:B)

1:5/100:500

Working time

3 – 11 min.

Surface drying time

15 – 22 min.

Recommended layer thickness

Min. 64mm

Pack sizes

5.54 kg, 25.7 kg

### **LOCTITE PC 7257**

Rapid setting concrete repair and grouting system for

- Repair/rebuilding of ramps and loading areas
- Support beam and footer repairs
- Bridge decking and supports
- Concrete bunds and walls
- Grouting bedplates and soleplates
- Anchoring bolts and handrails

**Concrete repair and protection**

**Chocking**

**Chemical resistant grout**

**Protective coating**

**LOCTITE PC 7204**

**LOCTITE PC 7277**

**LOCTITE PC 7202**



Grey

Blue

Green

-29°C to + 65°C

-30°C to +95°C

-40°C to 121°C

Refer to TDS

2.8:1/100:28

100:11.6/100:6.9

60 min.

20 min.

10 – 15 min.

5 hr

2.8 hr

24 hr

Min. 6mm

Refer to TDS

10 – 100 mm

Not available in the U.K.

5kg, 30kg

Not available in the U.K.

**LOCTITE PC 7204**

Chemical resistant quartz filled epoxy for

- Floor protection in chemical containment areas (bunds)
- Protection of concrete support areas against high dynamic loads
- Resurfacing ramps and stairs

**LOCTITE PC 7277**

Chemical resistant brushable non filled two component epoxy for

- Tanks, reservoirs and pipes
- Flooring

**LOCTITE PC 7202**

Self levelling, fast curing, non shrinking two component epoxy for installation of main propulsion and auxiliary machinery like

- Stern tube and strut bearings
- Pintle and rudder bearings
- Stern winches