



**820**  
**Rapid-Set Patching Compound**

**DESCRIPTION**

820 Rapid-Set Patching Compound is a ready-to-use, fast-hardening, high strength concrete repairing compound. Restoring concrete structures subject to corrosive attack from the sea and heavy weathering revealed the exceptional bond and durability provided by the formulation. Millions of pounds have been used yearly by private contractors and government agencies. 820 Rapid-Set Patching Compound is also available in a Sulfate Resistant version.

**USES**

820 Rapid-Set Patching Compound applications include the repair of any masonry or concrete structure in need of restoration

**Summer Grade**

For use in fairly warm summer-like temperatures 50°F (10°C) and over.

**Winter Grade**

For use either above water or underwater in cold conditions. (Although tests show 820 Winter Grade Rapid-Set Patching Compound will set-up and harden at below freezing temperatures, it is safer to bring area to be repaired up to at least 32°F (0°C).

**Limitation**

820 Winter Grade Rapid-Set Patching Compound will set very quickly if used in warm summer weather.

**Packaging**

25 Kg multi-all paper bags

**DATA SHEET NO. 3900-820**

**Physical Properties**

Pot Life            Mix and place within 5 minutes.  
                         Mix no more than 2 bags at one time.  
Set Time            ASTM C807 - at room temperature using trowelable mix.

	<u>Summer Grade</u>	<u>S.R.</u>	<u>Winter Grade</u>	<u>S.R.</u>
Initial	10-12 minutes	15-17 minutes	5-8 minutes	0-13 minutes
Final	15-20 minutes	20-25 minutes	10-12 minutes	5-17 minutes

Compressive Strength

ASTM C109  
750 psi (5.3 MPa)  
24 hours 2000 psi (14 MPa)  
7 days 5500 psi (38 MPa)  
28 days 7700 psi (53 MPa)

Bond Strength

Shear Bond - ORF Method  
After 7 days 1480 psi (10.2 MPa) Freeze-Thaw (ASTM C666 - 300 cycles) ORF

Resistance

Very good resistance –comparable to well-designed, air entrained, Portland cement concrete

Extending

When repairing exceptionally large or deep areas, up to 50 lb (22.7 kg) of crushed stone or pea gravel may be added per bag.

Yield

One cubic foot requires a little over 2 bags. Using crushed stone or pea gravel one ft<sup>3</sup> requires a little over 1 bag.

Acrylic Latex

Intralok Bonding Agent should be used as the mixing liquid for repair of industrial floors subject to heavy loading or where normal curing conditions are unsatisfactory.

Continued...

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## Installation Instructions

- Apply 820 Rapid-Set Patching Compound in a stiff no slump consistency, so that forms or other types of containers are not necessary.
- Use about 3 - 3 ½ quarts (3.5 - 4 litres) of water per bag.
- Mix for approximately 2 minutes and place without delay.
- The surface to be repaired should be rough, clean and wetted with water prior to application.
- For use on smooth surfaces and for featheredge patching, Intralok Bonding Agent is recommended.
- Do not mix up more than can be effectively placed in 5 minutes, especially in warm weather.
- Do not attempt to re-temper. After placing, keep damp for an hour or apply a curing compound.
- For applications use straight from the bag with water only.
- For exceptionally large or deep areas, crushed stone, trap rock, or pea gravel should be added up to 100% by volume.
- When adding these aggregates always dry mix the ingredients first.
- Add water and mix to LOW SLUMP consistency.
- Do not over-water.
- **MIX AND PLACE WITHIN 5 MINUTES.**



**For most current data sheet, further LEED information and MSDS, visit [www.wrmeadows.com](http://www.wrmeadows.com)**

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