

# Novolite Repair Mortar

## SELECTION & SPECIFICATION DATA

<b>Type</b>	Lightweight Epoxy Repair Mortar
<b>Description</b>	Novolite Repair Mortar is a 100% solids, three-component concrete repair mortar formulated for horizontal, vertical and overhead applications. Its penetrating resin binder doubles as primer for exceptional bond. Lightweight fillers allow up to 4 inch (10 cm) build thickness in one pass on vertical surfaces. Also available in fast cure grade, Novolite Repair Mortar FC.
<b>Features</b>	<ul style="list-style-type: none"> <li>No VOCs</li> <li>Lightweight, easy-to-use concrete repair</li> <li>Stronger than concrete</li> <li>Long-term protection</li> <li>May be applied up to 4-inches thick on verticals without sagging</li> </ul>
<b>Uses</b>	<ul style="list-style-type: none"> <li>Repair of spalled concrete surfaces</li> <li>Patching bug-holes in cast-in-place structures</li> <li>Warehouse floor repairs</li> <li>Repair of broken expansion joint shoulders</li> <li>Repair of vertical and overhead concrete surfaces</li> </ul>
<b>Color</b>	Light gray
<b>Finish</b>	Matte

## SUBSTRATES & SURFACE PREPARATION

<b>All</b>	Surfaces must be clean, dry and free of contaminants.
<b>Concrete or Concrete Masonry Units (CMU)</b>	<p>Old concrete: contact surfaces, including saw cuts, should be roughened and clean from oils, grease, dirt and loose, disintegrated or unsound concrete. Exposed rebar should be free from loose rust.</p> <p>New concrete: Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with SSPC-SP 13/NACE 6. Required surface profile is CSP 3-7. Voids in concrete may require filling. Mortar joints should be cured a minimum of 15 days. Prime with neat resin binder.</p>

## MIXING & THINNING

<b>Mixing</b>	<p>To prepare the primer/mortar resin binder, empty entire container of Part B hardener into Part A resin container and power mix thoroughly for 3 minutes, taking care to sweep the sides and bottom of the container with the mix blade.</p> <p>To prepare the mortar, with the mixer running, slowly add Part C aggregate to mixed binder resin until the desired mortar consistency is obtained. Aggregate loading may be varied to adjust mortar slump to suit the application.</p>
<b>Thinning</b>	Do not thin.
<b>Cleanup</b>	MEK or acetone

## APPLICATION GUIDELINES

<b>Installation Guidance</b>	Novolite Repair Mortar is formulated for ideal handling at 80°F (27°C). It will cure slowly between 50°F (10°C) and 70°F (21°C). Substitute Novolite Repair Mortar FC to speed cure below 70°F (21°C).
<b>Trowel</b>	Brush the primer/resin binder onto the prepared substrate. Before it dries, use a trowel or float to apply the Novolite Repair Mortar evenly over the primed surface and smooth the surface.

## CURE SCHEDULE

SUBSTRATE TEMPERATURE	INITIAL SET	FULL STRENGTH
77°F (25°C)	12 hours	7 days
100°F (37°C)	4 hours	3 days

Use Novolite Repair Mortar FC for substrate temperatures 40°F - 70°F (4°C - 21°C).

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## PACKAGING, ESTIMATING & HANDLING

ITEM#	PRODUCT	PACKAGING
M-CR1100-SMKT-01	Novolite Repair Mortar, Light Gray Each small kit includes: -Part A Resin -Part B Hardener -Part C Filler	13.8 lb (6.3 kg) Kit  3.3 lb (1.5 kg) Jerrican 2 lb (0.9 kg) Bottle 8.5 lb (3.9 kg) Pail
M-CR1100-LGKT-01	Novolite Repair Mortar, Light Gray Each large kit includes: -Part A Resin -Part B Hardener -Part C Filler	26.1 lb (11.8 kg) Kit  5.7 lb (2.6 kg) Pail 3.4 lb (1.5 kg) Jerrican 17 lb (7.7 kg) Pail
M-NOVOLITE-5GLB-1	Novolite Aggregate, Light Gray	17 lb (7.7 kg) Pail
M-NOVOLITE-DRUM-01	Novolite Aggregate, Light Gray	170 lb (77 kg) Drum

**Theoretical Coverage** 12 square feet at 1-inch per cubic foot. Allow 48 lb of mixed mortar per cubic foot with maximum filler loading. A wetter mix, with some filler left out, will produce lower yield per kit.

**Storage & Shelf Life** Maintain product in original packaging and sealed until ready for use. Estimated shelf life is 12 months when stored in a dry area at 75°F (24°C). Actual shelf life may vary with storage conditions. Do not store below 40°F (4°C) or above 110°F (43°C).

If there is any question with respect to the quality of the components, check reactivity prior to use. Consult ErgonArmor Technical Service for assistance.

## SAFETY

**Safety** Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

**Ventilation** Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

## TYPICAL PHYSICAL PROPERTIES

PROPERTY	VALUE
Compressive strength ASTM C109 5 days ambient cure	2,000 psi (14 MPa)
Hardness ASTM D2240	80 - 90 Shore D
Pull-off adhesion ASTM D4541	Concrete Failure
Density	47.7 lb/ft <sup>3</sup> (764.1 kg/m <sup>3</sup> )
VOC	0 lb/gal (0 g/L)
Solids content, mixed primer/binder	99 - 100% by volume

## SERVICE TEMPERATURE

SERVICE	MAXIMUM TEMPERATURE
Dry, continuous	200°F (93°C)
Dry, intermittent	250°F (121°C)

Temperature limitations will vary with chemical exposure. Consult ErgonArmor Technical Service for guidance.

Rev. 05/2025

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