Novolite Repair Mortar

SELECTION & SPECIFICATION DATA

Type

Lightweight Epoxy Repair Mortar

Description

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.

Features

- No VOCs
- Lightweight, easy-to-use concrete repair
- Stronger than concrete
- Long-term protection
- May be applied up to 4-inches thick on verticals without sagging

Uses

- Repair of spalled concrete surfaces
- Patching bug-holes in cast-in-place structures
- Warehouse floor repairs
- Repair of broken expansion joint shoulders
- Repair of vertical and overhead concrete surfaces

Color

Light gray

Finish

Matte

SUBSTRATES & SURFACE PREPARATION

All

Surfaces must be clean, dry and free of contaminants.

Concrete or Concrete Masonry Units (CMU)

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.

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.

MIXING & THINNING

Mixing

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.

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.

Thinning

Do not thin.

Cleanup

MEK or acetone

APPLICATION GUIDELINES

Installation Guidance

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).

Trowel

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 Armor 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^3 (764.1 kg/m^3)
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 Armor Technical Service for guidance.

Rev. 12/2025