



Since 1967

# Technical Data Sheet

## GENERAL REPAIR MULTI-USE PLASTER AND MORTAR MIX

### PART 1: GENERAL INFORMATION

#### 1.1 PRODUCT DESCRIPTION

GENERAL REPAIR is a blend of cement, specially graded masonry sand and admixtures that are combined in a carefully controlled proportion to enhance their characteristics. The polymer-modified GENERAL REPAIR mix is designed for applications of 1/8" – 1" ideal for patching and leveling cement based surfaces. This component is part of the BULL-BOND® line of ready-mixed mortars compatible with SABAKRETE™ or CONCRYL™ and other BULL-BOND® admixtures. This product has an excellent consistency, quality with good mixing, placing and finishing properties. It is a general purpose mortar that combines ease of mixing with excellent performance. The product is environmentally friendly with the use of local materials and enhanced with reinforced fiber.

#### 1.2 BASIC USES:

- Concrete roof leveling and auxiliary sloping for proper drainage (up to 1" thick)
- Roof drainage channel construction, parapet plastering and general concrete roof repair
- Repair of irregular, deteriorated and delaminated concrete surfaces
- Repair of concrete holes and craters
- Masonry mortar
- One-coat exterior plaster
- Mortar beds

#### 1.3 SUITABLE SUBSTRATES:

- Concrete
- Porous Concrete
- CMU blocks
- EPS/XPS foam with plastering lath

*\*All substrates must be properly prepared with the adequate bonding agent or by mechanical means.*

### PART 2: TECHNICAL DATA

#### 2.1 PRODUCT CHARACTERISTICS:

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BULLBOND® GENERAL REPAIR	
Mixing Ratio	1.35-1.75 gal of mixing liquid per 50 lb. bag of GENERAL REPAIR powder.
Bulk Density	130 lb/ft <sup>3</sup>
Application Temp. Range	58°F to 90°F
Workable Time	45-60 minutes
Packaging	50 lb. bag
Storage	Cool, dry place and free of excessive humidity. Don't leave exposed to sun.
	Pow der - 1 year if unopened

#### 2.2 SUGGESTED MIXES:

SABAKRETE™ GENERAL REPAIR MIX			
COMPONENT	QUANTITY	DILUTION PROPORTION	DILUTION DOSAGE
SABAKRETE™	0.35 - 0.45 gal	1	1.35 - 1.75 gal
Water	1 - 1.35 gal	3	
GENERAL REPAIR	50 lb		
APPLICATION THICKNESS RANGE	MIX YIELD		
1/8" - 1"	0.50 ft <sup>2</sup>		

*\*Liquid dosage quantity depends on mix flow preference and ambient temperature*

CONCRYL™ GENERAL REPAIR MIX			
COMPONENT	QUANTITY	DILUTION PROPORTION	DILUTION DOSAGE
CONCRYL™	0.45 - 0.55 gal	1	1.35 - 1.65 gal
Water	0.90 - 1.10 gal	2	
GENERAL REPAIR	50 lb		
APPLICATION THICKNESS RANGE	MIX YIELD		
1/8" - 1"	0.50 ft <sup>2</sup>		

*\*Liquid dosage quantity depends on mix flow preference and ambient temperature*

**2.3 MATERIAL PHYSICAL PROPERTIES:**

MATERIAL PHYSICAL PROPERTIES		
PROPERTY	METHOD	BULLBOND® GENERAL REPAIR
Compressive Strength	(ASTM C109)	~ 2,500 psi at 28 days
Flexural Strength	(ASTM C348)	~ 620 psi at 28 days
Drying Shrinkage at 78°F	(ASTM C157)	~ 0.072% at 28 days
MIX YIELD		
0.50 ft³		
Thickness (in)	Area (ft²)	
1/4	22	
3/8	14	
1/2	11	
3/4	7	
1	6	

**PART 3: INSTRUCTIONS**

**3.1 SURFACE PREPARATION**

- All substrates must be structurally sound, thoroughly clean and free of oil, wax, grease, dust, asphalt, existing patching materials or any other contaminant that might act as a bond breaker.
- Remove any loose material, delamination, deteriorated concrete, paint, sealer, mold, release agents or water-soluble materials. Clean the surface with high pressure water blasting.
- Test by sprinkling water on various areas of the substrate. If water penetrates, then a good bond can be achieved; if water beads, surface contaminants are present, and loss of adhesion may occur. Stubborn contaminants should be mechanically removed before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure.
- Smooth concrete surfaces must be mechanically abraded to ensure a good bond. Surface preparation work can be done by grinding, scabble, or other appropriate mechanical methods to obtain a CSP profile of 1-4.
- Saturate surface with clean water and remove all standing water. Substrate should be saturated surface dry (SSD) before applying GENERAL REPAIR.
- Ambient temperature, surfaces and materials should be below 90°F. It is recommended to install the material during the freshest moments of the day, be it during the morning or afternoon. It is also recommended to use cold mixing water to reduce heat in the cementitious mix.

**3.2 MIXING**

1. Verify that mixing tools and containers are clean before mixing.
2. Always pre-mix the BULL-BOND® latex admixture concentrate to ensure that any material that may have settled during extended storage is well dispersed. Once the concentrate is homogenous, proceed with portioning for dilution with water.
3. Dilute SABAKRETE™ or CONCRYL™ according to the desired application as designated on their respective dilution ratio table or suggested mix table (section 2.2) to create properly proportioned admixtures.  
\*With an increase in latex content and an increase in application thickness more precautions have to be taken to ensure proper curing.
4. First pour 3/4 of the required amount of the liquid component of the mix (dilution of latex admixture and water in Section 2.2) on the mixing container.

5. Slowly add the GENERAL REPAIR powder to the poured liquids, while mixing with a heavy-duty electric drill and mixing paddle at 800 rpm.
6. Next add the remaining 1/4 of liquid component to achieve the desired consistency of the mix.
7. Thoroughly mix for 2 minutes to a lump free, homogenous consistency. Do not overmix. Overmixing can cause excessive air entrapment. Do not add more liquid than recommended, or the system will not perform as desired.
8. Let it rest for 1 minute and then mix for an additional minute.  
*\*It is important to prepare enough material for the complete application to avoid the formation of cold joints or pour joints.*

**3.3 APPLICATION**

1. Saturate surface with clean water and remove all standing water. Substrate should be saturated surface dry (SSD) before applying GENERAL REPAIR.  
*\*If working over a difficult substrate like gravel embedded tar, asphalt/bitumen residuals or urethane foam residuals it is strongly recommended to apply a scrub-coat of a SABAKRETE™ BONDING SLURRY Mix or CONCRYL™ BONDING SLURRY Mix onto the saturated surface-dry (SSD) and properly prepared surface.*
2. While the scrub-coat of the SABAKRETE™ BONDING SLURRY Mix or CONCRYL™ BONDING SLURRY Mix is still wet/tacky, apply the cementitious mix to the required thickness using a margin trowel or the required tool for the given application. Work the cementitious mix into the bonding slurry to promote a mechanical adhesion to the substrate. Do not apply over a dry or partially dry bonding slurry because it will act as a bond breaker.

**3.4 CURING**

1. Protect from excessive heat and wind during the first 24 to 72 hours of curing. Alternatively use damp burlap, polyethylene sheeting or water-based curing compound with the purpose of retaining moisture. Excessive heat and/or wind could cause premature surface drying and result in mud cracking. Do not use solvent-based curing compounds.
2. Air cure GENERAL REPAIR for at least 3 to 5 days before the application of waterproofing.

**PART 4: PRECAUTIONS**

GENERAL REPAIR contains Portland cement and sand aggregate. Avoid eye and skin contact. Mix in a well-ventilated area and avoid breathing powder or dust. KEEP OUT OF REACH OF CHILDREN. Carefully read and follow all cautions and warnings on product label.

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