



UNIPATCH 20

GENERAL PURPOSE, NON-SHRINK, CEMENTITIOUS PATCHING MATERIAL

CONCRETE 3: CEMENT REPAIR MORTARS

PRODUCT DESCRIPTION

UniPatch 20 is a general purpose, non-shrink, cementitious patching material designed for horizontal and vertical applications. The product has been formulated to be placed in consistencies ranging from putty to plastic.

GENERAL USES

UniPatch 20 can be used for a variety of concrete repairs such as columns, beams, slabs, steps, sidewalks, driveways, concrete walls and precast members. In areas of spalls UniPatch 20 can be trowelled into place on both horizontal and vertical surfaces.

UniPatch 20 contains air entraining agents which make it well suited to freeze-thaw resistance.

FEATURES

- High strengths and excellent workability
- Easy to mix and use
- Non-corrosive, non-metallic
- Volume stable
- Wide range of mix consistencies can be attained
- Can be covered by asphalt or concrete in 60 minutes
- Resistant to a wide variety of chemicals including oil, grease, salt solutions and diesel fuel
- Excellent bonding characteristics
- Fast setting
- UniPatch 20 can be saved after achieving initial set

INSTRUCTIONS FOR USE

Surface Preparation

The object of good surface preparation is to achieve a clean, sound surface with a good mechanical key. All substrates should be cleaned and free of dust, plaster, oil paint, grease, corrosion deposits and any other contaminants. Excess laitance should be removed by mechanical means. Smooth substrates must be mechanically roughened by scabbling or needle gun to provide an adequate key.

To get maximum bonding, depths of repair areas should be controlled. Extremities of repair area should be recessed at least 3/8". Any steel in the repair area should be exposed around its full circumference and cleaned to bright shiny metal to remove all loose scale and corrosion deposits.

Mixing

Water ratios of 3.5 qts (7 pints) per 50 lb of material will produce a mixed consistency between putty to plastic depending upon handling preference and job requirements. Add UniPatch 20 to water and mix for 2 minutes, using a mortar mixer or by hand. Please note that mixing time, mixed consistency and set will be affected by the temperature of the substrate, water, material and air.

Application

Before applying, dampen area with water. Leave no standing water. Force the material against the sides and bottom of the repair area. Trowel material level and allow to take initial set. In hot, dry or windy conditions use an approved ASTM C309 Universal curing compound or cure & seal.

Bonding Agents

To meet the demands to utilize UniPatch 20 in a wide variety of patching conditions, Universal has both two part epoxy bonding agents and one part polymer modified acrylic bonding agents. Please contact your local field representative or our Technical Services Department for a specific Universal bonding agent recommendation.

Cleaning

Water cleanup prior to cure.

PACKAGING

- 50 lb bags
- 50 lb pails

LIMITATIONS/WARNING

Technical Warning

Not recommended for placing below 35°F (1.7°C) with a maximum of 1" per layer. Do not re-temper after initial set. Must be placed within 5 minutes of mixing. Do not add other admixtures to UniPatch. Do not apply over surfaces that are unsound, frozen or contain frost. Refer to material safety data sheet prior to use.

Health Warning

Avoid direct contact with skin and eyes. Product contains Portland Cement. May cause irritation and possibly cement burns. Wash exposed skin area promptly with water. In case of eye



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Building Products Inc.-Chemical Division

TYPICAL PERFORMANCE DATA 72° OF 50% RH 7 PINTS (7.3 LB; 3.3 KG) OF WATER PER 50 LB BAG OF UNIPATCH 20					
PLASTIC	HARDENED PROPERTIES OF UNIPATCH 20				
Working Time 15 min	Properties	Method ASTM	1 day PSI	7 days PSI	28 days PSI
Set Time ASTM C266 initial - 21 in. final - 30 min.	Compressive Strength	C109	3000	5000	6000
	Split Tensile Strength	C496	370	450	500
Flow ASTM C109 5-10%	Flexural Strength	C348	1000	1100	1200
Durability ASTM C672 25 cycles visual rating 0 (none)					
Yield - .42 cu ft/50 lb bag when mixed with 3.5 quarts of water	Drying Shrinkage	C157	-	-	0.010%

contact, flood eyes repeatedly with water and call physician. Do not take internally. Harmful if ingested. Keep product out of reach of children.

Consult material safety data sheet prior to use.

TECHNICAL SERVICES

Universal Building Products Inc. - Chemical Division Technical Service Department provides complete product and technical support.

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