

VERTICAL OVERHEAD REPAIR MORTAR

November, 05 Page 1 of 3

PRODUCT

TARGET® Vertical Overhead (V/O) Repair Mortar is a single component, polymer modified and fast setting mortar. It is a premixed product containing accurately measured quantities of hydraulic cement, graded sand, polymers and other admixtures. It's formulated for repairing of overhead and vertical surfaces. The ratios of the components are controlled to give a product with excellent adhesion; non-sagging, rapid strength gain and shrinkage compensate properties.



USES

- Vertical and overhead surfaces
- Balconies and columns
- Parking structures, Bridges, Retaining walls and other general spalled areas

ADVANTAGES

The major advantages of this product include:

- **One component – easy mixing and handling**
- High early strength
- Low permeability to resist moisture and chloride intrusion
- Excellent bond to properly prepared substrates.
- Shrinkage compensated and shrinkage is low when appropriate water content is added.
- Color that matches existing concrete

PROCEDURES

Surface Preparation:

1. The repair area must be free of dirt, dust, laitance, efflorescence, oil, grease or any bond inhibit material. **DO NOT Acid Etch.** It is ideal to use high-pressure water blast, scabblers, or other appropriate mechanical means to obtain an

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VERTICAL OVERHEAD REPAIR MORTAR

November, 05 Page 2 of 3

exposed aggregate surface with minimum surface profile of 1/16 in. **Proper surface preparation is essential.** Make sure repair area is not less than 1/8 inch in depth.

2. Saturate the substrate surface thoroughly with clean water for several hours prior to placing TARGET V/O repair mortar. Substrate should be saturated surface dry (SSD) with no standing water during application.
3. Reinforcement steel should be thoroughly prepared by mechanical cleaning to remove all trace of rust or other bond-inhibiting materials such as rest, dirt, loose chips, and dust. Corroded steel should be high pressure washed with clean water after mechanical cleaning.

Mixing

Slow speed mechanical drill, paddle or mortar mixer (400-600 rpm) is recommended for mixing. Add 3.5 – 3.8 L of clean water for 25kg (55 lb.) bag. Pour approximately 90% of water into mixing container, and then charge with one bag TARGET V/O repair mortar. Add remaining mix water to the mix. Mix up to 3 minute to uniform consistency. Do not mix longer than 5 minutes.

Application

Remove excess water from the saturated surface of dry substrate. A scrub coat of TARGET V/O repair mortar can be applied as bonding coat prior to placement of the mortar. Place TARGET V/O repair mortar before bonding coat dried. TARGET V/O repair mortar shall be scrubbed onto the substrate to fill voids. Press material against the edge of repair. When applied in multiples lifts, leave first lift in a roughened state prior to applying second lift. Allow preceding lift to final set before applying fresh material. If the next lift is not to be immediately placed, keep the surface continually moist. The thickness of each lift not be less than 1/8 inch or more than 1.5 inches per lift.

Curing and Temperature

Proper curing is extremely important. Although moist curing of TARGET V/O repair mortar is not desirable, the product should be protected against any sources of premature drying during installation and for the first 24 hours after installation is completed. A relative humidity of 50% to 70% is ideal for curing. Mixture and air temperature should be 5°C to 25°C during the application of TARGET V/O repair mortar. Protect mortar from freezing for at least 72 hours after placing. Give mortar extra time for curing in temperatures below 10°C

YIELD

- For trowel applications, each 25 kg (55 lb) bag of material will give approximately

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VERTICAL OVERHEAD REPAIR MORTAR

November, 05 Page 3 of 3

13.9 L (0.49ft³)

PACKAGING

TARGET V/O repair mortar is supplied in 25 kg (55 lb) bags in grey color.

TYPICAL PROPERTIES OF TARGET V/O REPAIR MORTAR MIX

WATER REQUIREMENT	3.5 – 3.8 liters/25 kg bag
28 DAY SHRINKAGE at 23°C ±2 °C, 50% R.H.	<0.040 %
WORKING TIME at 20°C (68°F)	15-20 minutes
COMPRESSIVE STRENGTH CAN3-A23.2-1B	
1 d	2400 psi (16.5Mpa)
7 d	3500 psi (24.1Mpa)
28d	5000 psi (34.5Mpa)
SETTING TIME (ASTM C266) at 20°C	
Initial set	40 min
Final set	1h 20 min
BOND STRENGTH (CAN A23.2-6B)	
1 d	> 1.4 Mpa

CAUTION

- Minimum 1/8 inch (3mm), and maximum per lift 1.5 inch (38mm).
- Mixing and curing temperature should be minimum at 7°C and rising at the
- Do not use solvent-based curing compounds.
- Mix only as much material as can be used within 15-20 minutes after the addition of mixing water.
- Do not add more than recommended water. Excess water will result in longer set times, reduced compressive strengths, segregation and excessive shrinkage.
- When working with TARGET V/O repair mortar, follow the standard safety precautions for Portland cement products. Normal safety-wear such as eye protection, rubber gloves and dust mask should be used. A Material Safety Data Sheet is available on request.

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