

JET SET Complete Repair

This data sheet covers properties mixture, placement, and general information on Jet Set Complete Repair

Description

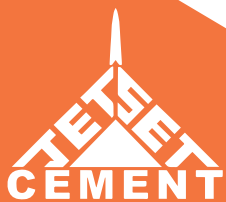
Jet Set Complete Repair a dry ready-to-use concrete product. It contains no calcium chloride. When mixed with water to its proper consistency it produces a fast setting high strength concrete with bonding strength substantially greater than that of normal cement grout. Because of its unusual characteristics of speed strength and bonding qualities, it makes a superior product for the repair and restoration of all existing concrete, concrete and steel, and in some cases, even wood structures. It may be placed above or below water level without the use of forms or special tools.

Advantages

Because Jet Set Complete Repair is a complete product, it is ready to use immediately right from the bag. It is quick setting so that the repaired area may be returned to normal use quickly, usually less than 1 hour. It is strong, producing PSI strength in hours, previously requiring days. Most important, the superior bonding ability of Complete Repair ensures that the repaired area is not only as good as new, it will stay that way. Application costs are kept at a minimum as Complete Repair is easy to use, may be applied even on the vertical, without the use of forms, and may be used in freezing as well as rainy weather.

Properties

When mixed as directed Jet Set Complete Repair will attain its initial set and be firm to the touch in 8 or 10 minutes. Final set within 20 minutes after mixing. Complete Repair should not be worked, mixed or placed after it becomes firm to the touch. This will have the effect of retempering, and Complete Repair, like all concrete products, should never be retempered. Complete Repair shall have a minimum compression strength of 200 PSI in 1 hour, 3000 PSI in 24 hours and 6000 PSI in 28 days. Complete Repair compression strength will vary slightly, as do all Ordinary Portland Cement products, depending on type of cure and water amounts added. Above minimum strength to apply both above and below water placements. Jet Set Complete Repair has a density of 120 pounds per cubic foot and shall have a volume change (expansion) of less than one hundredth of 1% at the end of 28 days. Complete Repair contains no calcium chloride and produces no excessive heat during hydration. It will attain a bond to existing concrete or steel substantially greater than that of any normal cement grout. Each 50 lb of material will produce a volume of 5 board feet.



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Availability

Jet Set Complete Repair is packaged in 50 lb poly lined bags, 50 lb, 10 lb, plastic pails. Available color concrete Gray and Lite.

Mixture

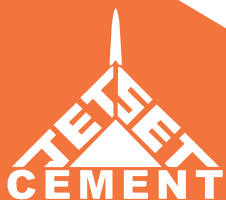
Clean fresh water shall be added to Jet Set Complete Repair in the ratio of approximately 5 and 1/2 quarts of water for each 50 lb of dry material. Air and water temperature will vary slightly the amount of water necessary to obtain the ideal mix. Thoroughly mixed material should have the consistency of medium glazing putty. It is extremely important to add only enough water to ensure a no slump consistency. After the addition of the water the material shall be thoroughly mixed. Care should be taken not to mix the material for more than one or two minutes after the addition of water. Remember the material is fast setting! Mixing may be done by hand for smaller jobs or in a small rotary mixer for larger applications. Mix only enough material to place in 4 or 5 minutes. Mixing equipment must be kept clean and free from accumulated material from previous mixes, as accumulated material already set will have the effect of retempering the new mix.

Placement

All loose material should be removed and the area to be repaired must be free from oil film or marine growth. In above water applications, area to be repaired should be soaked with clean water to ensure proper bond. Material should be firmly placed to existing concrete or steel. Complete Repair should not be overworked or troweled excessively when being placed. Final finish and shaving to grade is better done after the material has become firm to the touch.

Finishing

After the initial placement is made and shaping is completed, Jet Set Complete Repair may be finished in the normal manner with a hand trowel. Care should be taken not to overwork the surface area while the material is going through its curing process. In most cases, it is advised to allow the repaired area to become firm to the touch and then, using the edge of the trowel, shave the area to grade and desired finish. Remember not to trowel or disturb the surface of the repaired area while the material is going through its hydration cycle as this will have the same effect as over mixing, and the result will be the same as retempering.



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Curing

Jet Set Complete Repair placed under water requires no special curing instructions. When the material is placed above water, especially in very warm dry conditions, the manufacturer recommends the use of any good standard curing agent. Agent to be applied when repaired area is firm to the touch and finger does not soil on touch. Damp sand or damp cloth or any other moisture-retaining method may also be used with equal success. The most important time to retain the moisture is from the time hydration is complete to several hours after placement. This is especially critical when depth of repair is less than 1/2 inch including feathered edges.

Bonding agents

No special bonding agents are recommended in normal placement. Any agent intended for use with normal cement grout may be used if desired. To ensure the best bond, it is recommended that the area being repaired is well soaked with clean water immediately before placement. Avoid standing water or puddles, but ensure entire area has been dampened.

For special or more difficult repair problems consult the manufacturer for specific instructions or assistance.