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APPLICATION INSTRUCTIONS

TECHCRETE R AND TBR

PART NO. 34950, 34951, 34952, 34953, 34954
34957, 34958, 34290, 34295

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READ BEFORE USING THIS PRODUCT

GENERAL: Crafco TechCrete R and TBR materials include the following: TBR Cold Climate (#34958), TBR Standard Climate (#34953), TBR Hot Climate (#34954), R Cold Climate (#34957), R Standard Climate (#34952), R Hot Climate (#34951), Aggregate Chipping (#34950) and Primer (#34290 or #34295). TechCrete materials are hot-applied, synthetic resin compounds containing chopped glass fiber, polymer rubber and aggregate. For repairs 1 9/16" (40mm) in depth or greater the appropriate TechCrete TBR should be applied, for repairs less than 3/4" (20 mm) in depth the appropriate TechCrete R should be applied. Additional information on the products is shown on Product Data Sheets.

MELTING: Ensure the heater/mixer is clean and free of any residual material or contamination. Do not remove TechCrete material from the bag. Place bag and material into TechCrete mixer/heater for melting. Do not mix different types of TechCrete materials together. Heat TechCrete material to a minimum application temperature of 375°F (190°C). It is recommended that a secondary device be used to measure temperature of material (i.e. noncontact infrared thermometer, hand held thermometer, etc.) prior to application. Do not exceed the safe heating temperature of 428°F (220°C). Do not heat TechCrete materials continuously for longer than six (6) hours.

PAVEMENT TEMPERATURES: Do not apply TechCrete material if the pavement temperature is below 40°F (4°C).

PAVEMENT PREPARATION: Erect appropriate traffic controls to protect the work site for the duration of the repairs. Mark out the area to be repaired and use suitable equipment (saws, planers, pneumatic hammers, etc.) to remove the defective pavement. Sufficient pavement is to be removed to ensure the TechCrete is bonding to sound intact pavement. When TechCrete TBR is applied across a joint a minimum of 4" (102 mm) of material is required to be placed into the adjacent slab. Remove all loose debris from the work site. Clean and dry the repair area with a hot air lance. Prime the repair area with the primer (# 34290 or 34295) and allow the primer to set (dry) before applying the TechCrete material. Puddled or pooled primer in the repair area should be brushed out to speed drying. Do not use an open flame to dry the primer. The perimeter of the repair area is to be masked with a fabric tape to ensure no excess material will be on the surface of the pavement.

APPLICATION: Gravity feed the TechCrete material directly into the repair area or into pails and immediately pour into the repair area. For repairs 1 9/16" (40mm) in depth or greater the appropriate TechCrete TBR should be applied, for repairs less than 3/4" (20 mm) in depth the appropriate TechCrete R should be applied. TechCrete TBR material should be applied in two (2) applications (lifts). Allow the material to cool between each application (lift). Work the TechCrete material into the edges of the repair and level surface with a heated iron. Allow bubbles to expel from the applied TechCrete material. Prior to applying the aggregate chipping (# 34950), quickly expose the surface of the TechCrete material to hot compressed air or a flame to remove any surface bubbles. Apply dry aggregate chipping while the TechCrete patch surface temperature is 225°F ± 25°F (107°C ± 14°C), as measured with a non-contact infrared thermometer. Heating the aggregate chipping just before application may be advantageous for some repairs. TechCrete cools around the perimeter surface of a repair before the center surface. Where practical, the aggregate chipping should be applied around the perimeter first and then applied to the center, after the temperature falls into range. When the aggregate chipping must be applied at one time, the center surface of the Techcrete should be allowed to cool to 225°F ± 25°F (107°C ± 14°C) before applying the chipping. The perimeter surface temperature will have cooled below the application temperature range and must be gently heated back to the recommended patch surface temperature range using hot compressed air or a torch, before application of the aggregate chipping. Once the TechCrete material has cooled a final cleaning (sweeper/vacuum) will remove any surplus chippings prior to opening to traffic.

CLEAN OUT: Remove all excess material from the mixer/heater at the completion of each days repair.

STORAGE: Pallets of bagged product are protected with a weather resistant covering. During storage, the protective wrap must be kept on the pallets to prevent bags from getting wet. If bags are subjected to moisture, the material may get wet which could create displacement (boil-over) of the product from the tank during heat-up. If rips in the pallet covering occur during handling, they should be repaired to help maintain packaging integrity. Pallets should be stored on a level surface which is dry and has good drainage. Pallets should not be stacked. Material properties are not affected by packaging deterioration.

SAFETY PRECAUTIONS: Since these materials are heated to elevated temperatures, it is essential that operations be conducted in manners which assure safety of personnel. All associated with use of the material need to be aware of the hazards of using hot applied materials and safety precautions. Before use, the crew should read and understand product use and safety information on each bag of TechCrete and the product MSDS. This sheet which is supplied with each shipment, describes the characteristics of the product as well as any potential health hazards and precautions for safe handling and use. User should check D.O.T. requirements for transportation of TechCrete at elevated temperatures above 212°F (100°C).

HAZARDS ASSOCIATED WITH HOT APPLIED MATERIALS: Skin contact with hot applied materials causes burns. Over exposure to fumes may cause respiratory tract irritation, nausea, or headaches. Appropriate precautions need to be taken to prevent contact with the hot material and to avoid inhalation of fumes for everyone in the vicinity of the work area operation. Safety precautions should include: 1. Protective clothing to prevent skin contact with hot material. 2. Care when adding product to melters to reduce splashing. 3. Careful operation and control of tools which are used to apply product. 4. Traffic and pedestrian control measures which meet or exceed local requirements to prevent access to work areas while product is still in a molten state. 5. Avoidance of material fumes. 6. Proper application configurations with a minimum amount of excesses of material. 7. Appropriate clean up of excessive applications or product spills.

ADDITIONAL INFORMATION: Additional information regarding these products is available by contacting your distributor or Crafcro, Inc. This information includes: 1) Product Data Sheets, 2) Material Safety Data Sheets and 3) Safety Manual.