



420 N. Roosevelt Ave. • Chandler AZ 85226
 1-800-528-8242 • (602) 276-0406 • FAX (480) 961-0513
 www.crafco.com

PRODUCT DATA SHEET
TECHCRETE TYPE R

PART NO. 34957(Cold), 34952(Standard), 34951(Hot)

MARCH 2004

READ BEFORE USING THIS PRODUCT

GENERAL TechCrete (Type R) is a hot applied polymer modified resin based flexible concrete repair material. Used to repair cracks, spalls, pop-outs, failed joints and most types of defects in concrete surfaces up to a maximum depth of 3/4 inch (20 mm). TechCrete is gray in color, similar to the surfaces in which it is to be applied, therefore it is aesthetically suitable in all concrete pavements. The unique design features of TechCrete produce an impervious, impact resistant; load bearing, highly flexible repair that withstands vehicle traffic, aircraft movements and climatical conditions once installed. TechCrete is supplied in powder form in melt pack bags. The material is carefully placed, complete with bag, in the TechCrete Melter Mixers, melted and heated to the correct working temperature. The melted material is then poured into the prepared pavement section and leveled. The repair is left to cool and solidify prior to opening to traffic. (See Application Instructions).

PROPERTIES

Properties of TechCrete Type R are as follows:

<u>Parameter</u>	<u>Cold</u>	<u>Standard</u>	<u>Hot</u>
Temperature ranges	68°F (20°C) to -13°F (-24°C)	80°F (28°C) to 24°F (-5°C)	140°F (60°C) to 40°F (5°C)
Color	Gray	Gray	Gray
Form	Powder	Powder	Powder
Specific Gravity	1.7	2	2
Softening Point,ASTMD36	185°F (85°C) (min.)	212°F (100°C) (min.)	239°F(115°C) (min.)
Flow Test (5 hrs@140°F(60°C) ASTMD3407/BS2499	3 mm (max.)	3 mm (max.)	3 mm (max.)
Slump Test (cone) 3 hrs @ 158°F(70°C)	5% (max.)BS3262 Part 1	5% (max.)BS3262 Part 1	5% (max.)BS3262 Part 1
Penetration Test@ 77°F(25°C)	7.5 mm (max.)	-	-
Extension Test @19°F(-7°C)extension	100% ASTMD3405	-	-
Extension Test 1 mm/min. @ 77°F(25°C)	-	ASTMD5329	ASTMD5329
Newton Force Extension		750 N (max.) 80% (min.)	650 N (max.) 25% (min.)
Compression Resistance 10 mm/min. @ 73°F(23°C)	3500 Newton load (min.) @ 50% compression	3500 Newton load (min.) @ 50% compression	3500 Newton load (min.) @ 50% compression
Wheel Tracking @ 122°F(50°C) mm/hr	20 mm specimen 3mm/hr (max.)(BS598-110:98)	20 mm specimen 3mm/hr (max.)(BS598-110:98)	20 mm specimen 3mm/hr (max.)(BS598-110:98)
Max rut depth	5 mm (max.)	5 mm (max.)	5 mm (max.)
Binder Extension Test, 2.5 mm/min. @ 72°F(22°C), Newton force	350 N (max) ASTM D5329	-	-
Extension	700%		
Binder Extension Test, 1 mm/min.(5 cycles) @72°F(22°C)		Single extension 400 N (max.)ASTM D5329	550 N (max.)ASTM D5329
Newton force	-		
Extension		300% (min.)	50% (min.)
Artificial Weathering	1000 hrs (min.)BS3900/part F3	1000 hrs (min.)BS3900/part F3	1000 hrs (min.)BS3900/part F3
De-icer Fluid	Resistant	Resistant	Resistant
Min. Application Temp.	375°F (190°C)	375°F (190°C)	375°F (190°C)
Max. Application Temp.	428°F (220°C)	428°F (220°C)	428°F (220°C)
Shelf Life	2 years	2 years	2 years

APPLICATION Prior to use, the user must ensure that the Material Safety Data Sheet and Application Instructions are read and followed.

PACKAGING The materials are packed in Melt Pack Bags of approximately 55 pound (25 kg) ± 2 pounds (1 kg). The bags are packed on pallets. Each pallet hold approximately 39 bags (2,145 ± 80 pounds). Pallets of TechCrete are weighed and the product is sold by its net weight.

WARRANTY CRAFCO, Inc. warrants that CRAFCO sealants meet applicable ASTM, AASHTO, Federal or State specifications at time of shipment. Techniques used for the preparation of the cracks and joints prior to sealing are beyond our control as are the use and application of the sealants; therefore, CrafcO shall not be responsible for improperly applied or misused sealants. Remedies against CrafcO, Inc., as agreed to by CrafcO, are limited to replacing nonconforming product or refund (full or partial) of purchase price from CrafcO, Inc. All claims for breach of this warranty must be made within three (3) months of the date of use or twelve (12) months from the date of delivery by CrafcO, Inc. whichever is earlier. There shall be no other warranties expressed or implied. **For optimum performance, follow CrafcO recommendations for sealant installation.**



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PRODUCT DATA SHEET
TECHCRETE TYPE TBR

PART NO. 34958(Cold), 34953(Standard), 34954 (Hot)

MARCH 2004

READ BEFORE USING THIS PRODUCT

GENERAL TechCrete (Type TBR) is a hot applied polymer modified resin based flexible concrete repair material. Used to repair cracks, spalls, pop-outs, failed joints and most types of defects in concrete surfaces up to a maximum depth of 8 inches (200 mm). TechCrete is gray in color, similar to the surfaces in which it is to be applied, therefore it is aesthetically suitable in all concrete pavements. The unique design features of TechCrete produce an impervious, impact resistant; load bearing, highly flexible repair that withstands vehicle traffic, aircraft movements and climatical conditions once installed. TechCrete is supplied in powder form in melt pack bags. The material is carefully placed, complete with bag, in the TechCrete Melter Mixers, melted and heated to the correct working temperature. The melted material is then poured into the prepared pavement section and leveled. The repair is left to cool and solidify prior to opening to traffic. (See Application Instructions).

PROPERTIES Properties of TechCrete Type TBR are as follows:

<u>Parameter</u>	<u>Cold</u>	<u>Standard</u>	<u>Hot</u>
Temperature ranges	68°F (20°C) to -13°F (-24°C)	80°F (28°C) to 24°F (-5°C)	140°F (60°C) to 40°F (5°C)
Color	Gray	Gray	Gray
Form	Powder	Powder	Powder
Specific Gravity	2	2.2	2.2
Softening Point, ASTMD36	185°F (85°C) (min.)	230°F (110°C) (min.)	239°F (115°C) (min.)
Flow Test (5 hrs@140°F(60°C) ASTMD3407/BS2499	3 mm (max.)	3 mm (max.)	3 mm (max.)
Slump Test (cone) 3 hrs @ 158°F(70°C)	5% (max.)BS3262 Part 1	5% (max.)BS3262 Part 1	5% (max.)BS3262 Part 1
Penetration Test @ 77°F(25°C)	7.5 mm (max.)	-	-
Extension Test @19°F(-7°C)extension	100% ASTMD3405	-	-
Extension Test 1 mm/min. @ 77°F(25°C)	-	ASTMD5329	ASTMD5329
Newton Force Extension	-	650 N (max.) 50% (min.)	650 N (max.) 25% (min.)
Compression Resistance 10 mm/min. @ 73°F(23°C)	5000 Newton load (min.) @ 25% compression	5000 Newton load (min.) @ 25% compression	5000 Newton load (min.) @ 25% compression
Wheel Tracking @ 122°F(50°C)	40 mm specimen	40 mm specimen	40 mm specimen
mm/hr	3mm/hr (max.)(BS598-110:98)	3mm/hr (max.)(BS598-110:98)	3mm/hr (max.)(BS598-110:98)
Max rut depth	5 mm (max.)	5 mm (max.)	5 mm (max.)
Binder Extension Test, 2.5 mm/min.@ 72°F(22°C), Newton force	350 N (max) ASTM D5329	-	-
Extension	700%	-	-
Binder Extension Test, 1 mm/min.(5 cycles)@72°F(22°C)	-	Single extension	-
Newton force	-	400 N (max.)ASTM D5329	550 N (max.)ASTM D5329
Extension	-	300% (min.)	50% (min.)
Artificial Weathering	1000 hrs (min.)BS3900/part F3	1000 hrs (min.)BS3900/part F3	1000 hrs (min.)BS3900/part F3
De-icer Fluid	Resistant	Resistant	Resistant
Min. Application Temp.	375°F (190°C)	375°F (190°C)	375°F (190°C)
Max. Application Temp.	428°F (220°C)	428°F (220°C)	428°F (220°C)
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