

Technical Bulletin # 610M

Bulletin Description

This bulletin compares the key physical properties and associated product information of the three major 3-component grouts comparing them to concrete.

Physical Properties

GROUT	CHOCKFAST RED	CHOCKFAST RED SG	ESCOWELD 7505E/7530	CONCRETE
TECHNICAL BULLETIN	617	618	1612	
COMPRESSIVE STRENGTH ASTM C-581 (MOD)	15,250 psi (105 MPa)	18,120 psi (124.9 MPa)	14,000 psi (96.5 MPa)	3,500 psi (246 kg/cm ²)
COMPRESSIVE MODULUS OF ELASTICITY ASTM C-582	2,000,000 psi (13793 MPa)	1,970,000 psi (13582 MPa)	1,800,000 psi (12411 MPa)	6,000,000 psi (41364 MPa)
LINEAR SHRINKAGE ASTM D-2568	Not Measurable	Not Measurable	0.036% (0.00036 in/in)	0.2%
COEFFICIENT OF LINEAR THERMAL EXPANSION 0°C-60°C (32°F-140°F) ASTM D-698	11.2 X 10⁻⁶ in/in/ °F (20.1 X 10 ⁻⁶ cm/cm/ °C)	10.8 X 10⁻⁶ in/in/ °F (19.4 X 10 ⁻⁶ cm/cm/ °C)	14.5 x 10⁻⁶ in/in/°F (25.2 X 10 ⁻⁶ cm/cm/ °C)	5.9 x 10⁻⁶ in/in/°F (10.6 x 10 ⁻⁶ cm/cm/ °C)
FLEXURAL STRENGTH ASTM C-582	4,025 psi (27.7 MPa)	4,800 psi (33 MPa)	4,700 psi (32.4 MPa)	800 psi (5.5 MPa)
FLEXURAL MODULUS OF ELASTICITY ASTM C-582	2 X 10⁶ psi (13793 MPa)	2.62 X 10⁶ psi (18060 Mpa)	1.8 x 10⁶ psi (1.26 x 105 kg/cm²) (ASTM C-579)	
TENSILE STRENGTH ASTM D-640	1,832 psi (12.6 MPa)	2,130 psi (14.6 MPa)	2,100 psi (14.5 MPa)	350 psi (2.45 MPa)
IZOD IMPACT STRENGTH ASTM D-258	4.6 in.lb/in (0.02 N.m/mm)	-	-	-
FIRE RESISTANCE ASTM D-637	Self Extinguishing	Self Extinguishing	Self Extinguishing	Not combustible but spalls
SPECIFIC GRAVITY	2.06	2.24	2.00	2.4

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ITW Performance Polymer Europe
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Product Information

	CHOCKFAST RED	CHOCKFAST RED SG	ESCOWELD 7505E/7530
COVERAGE per UNIT	1.6 ft ³ (45.3L)	1.6 ft ³ (45.3L)	2.4 ft ³ (68L)
MAXIMUM POUR DEPTH	18 in (450 mm)	4 in (100 mm)	18 in (450 mm)
CURE TIME (approximate)	54 hrs. @ 60°F (16°C) 36 hrs. @ 72°F (21°C) 24 hrs. @ 80°F (27°C) 18 hrs. @ 90°F (32°C)	24 to 48 hours @ 70°F (21°C)	48 hrs. @ 60°F (16°C) 36 hrs. @ 72°F (21°C) 24 hrs. @ 80°F (27°C) 12 hrs. @ 90°F (32°C)
POT LIFE	3 hours	1 hour	2 hours
CLEAN UP	Water	Water	Water
PACKAGING per Unit	Resin: 1.6 gal. (6.1 L) Hardener: 0.9 gal. (3.4 L) 4 Bags Aggregate 46 lb. (21 kg)	Resin: 2.4 gal (9.05 L) Hardener: 0.43 gal (1.63 L) 4 Bags Aggregate 46 lb. (21 kg)	Resin: 2.57 gal (9.7 L) Hardener: 1.12 gal (4.2 L) 5 Bags Aggregate 53 lb (24 kg)
UNIT WEIGHT	207 lbs. (94 kg)	207 lbs. (94 kg)	305 lbs. (138 kg)
SHELF LIFE	2 years dry storage	2 years dry storage	2 years dry storage

NOTE: The physical properties quoted above are for laboratory prepared specimens. Tests on specimens from a job site may not be identical

Date

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