



For Various Epoxy Grouts

Technical Bulletin # 610N

Bulletin Description

This bulletin compares the key physical properties and associated product information of the major 3component epoxy grouts within the ITW Performance Polymers product offerings.

Physical Properties

	CHOCKFAST RED	CHOCKFAST RED SG	ESCOWELD 7505E/7530	CHOCKFAST RED HF
TECHNICAL BULLETIN	617	618	1612	1040
COMPRESSIVE STRENGTH ASTM C-581 (MOD)	15,250 psi (105 MPa)	18,120 psi (124.9 MPa)	14,000 psi (96.5 MPa)	13,900 psi (95.8 MPa)
COMPRESSIVE MODULUS OF ELASTICITY ASTM C-582	2,000,000 psi (13,793 MPa)	1,970,000 psi (13,582 MPa)	1,800,000 psi (12,411 MPa)	1,600,000 psi (11,000 MPa)
LINEAR SHRINKAGE ASTM D-2568	Not Measurable	Not Measurable	0.036% (0.00036 in/in)	Not Measurable
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)	14.6 x 10 ⁻⁶ in/in/°F (25.2 X 10 ⁻⁶ cm/cm/ °C)	19.1 x 10 ⁻⁶ in/in/°F (34.4 x 10 ⁻⁶ mm/mm/°C)
FLEXURAL STRENGTH ASTM C- 582	4,025 psi (27.7 MPa)	4,800 psi (33 MPa)	4,700 psi (32.4 MPa)	5,200 psi (35.9 MPa)
FLEXURAL MODULUS OF ELASTICITY ASTM C-582	2 X 10 ⁶ psi (13,793 MPa)	2.62 X 10 ⁶ psi (18,060 MPa)	-	1.55 x 10 ⁶ psi (10,700 MPa)
TENSILE STRENGTH ASTM D-640	1,832 psi (12.6 MPa)	2,130 psi (14.6 MPa)	2,100 psi (14.5 MPa)	2,900 psi (20.0 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	Self-Extinguishing
SPECIFIC GRAVITY	2.06	2.24	2.00	2.05

ITW Performance Polymers

130 Commerce Drive • Montgomeryville, PA 18936 • 215-855-8450 • Fax 215-855-4688



Product Information

	CHOCKFAST RED	CHOCKFAST RED SG	ESCOWELD 7505E/7530	CHOCKFAST RED HF
COVERAGE PER UNIT	1.6 ft ³ (45.3L)	1.6 ft ³ (45.3L)	2.4 ft ³ (68L)	2.51 ft ³ (70.99L)
MAXIMUM POUR DEPTH	18 in (450 mm)	4 in (100 mm)	18 in (450 mm)	4 in (100 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 @ 70º F (21º 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)	54 hrs. @ 60°F (16°C) 36 hrs. @ 72°F (21°C) 24 hrs. @ 80°F (27°C) 18 hrs. @ 90°F (32°C)
POT LIFE	3 hours	1 hour	2 hours	2.5 hours
CLEAN UP	Water	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)	Resin: 7.1 gal (26.9 L) Hardener: 2.64 gal (9.99 liters) 5 Bags Aggregate 50 lb (18.4 kg)
UNIT WEIGHT	207 lbs. (94 kg)	207 lbs. (94 kg)	305 lbs. (138 kg)	338 lbs. (153 kg)
SHELF LIFE	2 yrs. dry storage	2 yrs. dry storage	2 yrs. dry storage	1 yr. dry storage

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



General: Every reasonable effort is made to insure the technical information and recommendations on these data pages are true and accurate to the best of our knowledge at the date of issuance. However, this information is subject to change without notice. Prior versions of this publication are invalid with the release of this version. Products and information are intended for use by qualified applicators that have the required background, technical knowledge, and equipment to perform said tasks in a satisfactory manner. Consult your local distributor for product availability, additional product information, and technical support. Warranty: ITW Performance Polymers, a division of Illinois Tool Works Inc., warrants that its products meet their product shipment. Warranty Claims: If any product fails to meet the above, ITW Performance Polymers will, at its option, either replace the product or refund the purchase price. ITW Performance Polymers will have no other liability for breach of warranty, negligence, or otherwise. All warranty claims must be made in writing within one year of the date of shipment. No other claims will be considered. Disclaimer: ITW.

disclaims any warranty of merchantability or fitness for a particular purpose. Suggestions concerning the use of products are not warranties. The purchaser assumes the responsibility for determining suitability of products and appropriate use. ITW Performance Polymers' sole liability, for breach of warranty, negligence or otherwise, shall be the replacement of product or refund of the purchase price, at ITW Performance Polymers' election. Under no circumstances shall ITW Performance Polymers be liable for any indirect, incidental or consequential damages. **Modification of Warranty**: No distributor or sales representative has the authority to change the above provisions. No change in the above provisions will be valid unless in writing and signed by an officer or the Technical Director of ITW Performance Polymers. No term of any purchase order shall serve to modify any provision of this document. **Mediation and Arbitration**: If any dispute arises relating to products or product warranties, either the purchaser or ITW Performance Polymers may a) initiate mediation under the then current Center for Public Resources (CPR) Model Procedure for Mediation of Business Disputes, or b) initiate a non-binding arbitration under the rules of the American Arbitration Association for the resolution of commercial disputes.