

ESCOWELD®

Industrial Grouts & Polymers

The **ESCOWELD®** Extended Aggregate Systems for Machinery Grouting and Foundations are designed to meet your installation and product performance needs.

The performance of any epoxy machinery grout system depends not only on the engineering and physical characteristics of the cured grout, but of the mixing and installation.

The new **ESCOWELD®** Enhanced and Super Aggregate Systems for machinery grouting and foundations offer you many benefits designed to simplify installation while providing excellent performance.

Key Benefits:

- **Simpler installation**
- **Greater yield/economy**
- **Excellent performance characteristics**

These unique systems combine The **ESCOWELD® 7505E** Resin/Hardener with **ESCOWELD® 7530** aggregate with precisely graded enhanced aggregates to provide exceptional flow characteristics, while achieving a greater yield per unit. These systems are a cost effective replacement for polymer-modified concrete and essential for deeper pours and foundation rebuilds. A 24-hour cure makes **ESCOWELD®** Enhanced Aggregate and **ESCOWELD®** Super Aggregate Machinery Epoxy Grouting Systems the smart choice for shut-downs and turn-arounds.

Features:

- **Greater Yield**, resulting in a lower cost per cubic foot.
- **Convenient Packaging**, to simplify the mixing of liquid components and provide greater mixing precision.
- **Superior Flow Characteristics**, to simplify installation on difficult foundations, assuring proper load-bearing area and reducing the time required for installation.
- **Cleans up with water**, a unique feature with obvious advantages over competitive products that require hydrocarbon-cleaning solvents.
- **Gentle Exothermic Cure**, provides low-stress results.

Other unique features and benefits, which have been offered for over 20 years with the original **ESCOWELD® 7505E/7530** formulation include:

- **Excellent Bonding**, to itself without surface preparation to simplify multiple pour projects.
- **Wide range of pour depths**, from 1 inch to 18 inches. This simplifies and speeds up any job, which would otherwise have required multiple pours and additional surface preparation.
- **24 hour cure**, especially valuable during tight turn-around schedules or emergency repairs.
- **Exceptional dimensional stability**, upon cure.
- **Excellent resistance**, to chemical and physical degradation.

Mixing & Installation:

Proper mixing of all components is particularly important in obtaining the maximum strength, flow and adhesive characteristics of epoxy grouts.

Mix the liquid components thoroughly and in correct proportions. The pail for **ESCOWELD® 7505E** Part A has enough room to permit mixing Part B directly in that container. Mix aggregate into a combined liquid components in a mechanical mixer. Mixing consistency is the key when adding aggregate.

For optimum results, follow the recommendations for site preparations closely, grout storage, grout mixing, grout placement, grout finishing, etc. See the **ESCOWELD®** Representative in your area for complete details or contact us at www.escoweld.com.



ITW **ESCOWELD®** Epoxy Grout Systems ♦ Montgomeryville, PA

www.escoweld.com

Rev. 10/03



Extended Aggregate Systems

Typical Physical Properties	Standard Mix	Enhanced Aggregate Mix	Super Aggregate Mix***
Compressive Strength ASTM C 579 Actual field strength may vary from 10,000 to 14,000 psi depending upon curing and testing conditions.	14,000 psi	14,000 psi	16,000 psi
Yield Per Unit	2.4 cu.ft.**	2.9 cu.ft.**	3.4 cu.ft.**
Tensile Strength	2,100 psi	2,000 psi	2,000 psi
Modulus of Elasticity ASTM C 579 Modulus of Elasticity as measured by ASTM C579 can vary according to conditions of curing and measuring techniques.	1.8 x 10 ⁶	1.9 x 10 ⁶	1.9 x 10 ⁶
Coefficient of Linear Expansion ASTM C 531	14 x 10 ⁻⁶	12 x 10 ⁻⁶	12 x 10 ⁻⁶
Flexural Strength	4,700 psi	[Not Tested]	[Not Tested]
Adhesive Bond to Concrete ASTM C 307	Better than Concrete	Better than Concrete	Better than Concrete
Adhesive Bond to Steel ASTM C 307+A66	2,100 psi	[Not Tested]	[Not Tested]
Approximate Working Life @ 77°F	2 hours	> 2 hours	> 2 hours
Sealed Shelf Life, Part A & B	2 years	2 years	2 years
Depth of Pour Limitation	18 inches	24 inches*	48 inches*
Cured Density, lbs./cu.ft.	120 lbs./cu.ft.	130 lbs./cu.ft.	136 lbs./cu.ft.
Viscosity, Centipoise @ 77°F Epoxy Resin - Part A Converter - Part B	1,100 - 1,500 cps 700 - 1,200 cps	1,100 - 1,500 cps 700 - 1,200 cps	1,100 - 1,500 cps 700 - 1,200 cps
Flash Point, SETA Closed Cup Epoxy Resin - Part A Converter - Part B	210°F 210+B34	210°F 210°F	210°F 210°F
Dielectric Strength	140 volts/mil	140 volts/mil	140 volts/mil

* Deeper Pours can be made, but and ESCOWELD® Representative should be contacted for specific instructions.

**Typical physical properties as expressed for the ESCOWELD® Enhanced Aggregate and Super Aggregate mixtures are approximate based on the averages of multiple field samples tested.

*** The Super Aggregate System is designed for use as a polymer alternative to concrete when installing new foundations or rebuilding existing only. Contact your ESCOWELD® Representative when considering this system for your next application.