



PRECISION EPOXY GROUTS

E³-FLOWABLE, E³-DEEP POUR AND E³-XTREME



TYPICAL APPLICATIONS

- Grouting foundations, bases and columns
- Setting anchors
- Grouting crane rails
- Supporting chemical tanks and processing equipment
- Filling post-tensioned pour-backs
- Concrete repair

FEATURES AND BENEFITS

- DL Technology™ aggregate significantly reduces dust
- Low exotherm
- Expansive/non-shrink
- Low creep maintains alignment of machinery
- Excellent baseplate contact and load transfer
- Good bond to steel and concrete for optimum load transfer and vibration dampening
- Chemical resistance enables use in challenging environments
- Equipment and tools can be cleaned with soap and water

Euclid Chemical's **E³-FLOWABLE**, **E³-DEEP POUR**, and **E³-XTREME** are used to support machinery, anchors, and rails, and excel in many other applications where proper equipment alignment and transmission of load is critical. E³ grouts are also used to fill "pour-back" anchorages on post tensioning projects and can be used for concrete repair. With superior engineering properties and resistance to chemical attack, Euclid Chemical's epoxy grouts are formulated for easy installation, with good flow characteristics suitable for pouring or pumping, and convenient soap and water cleanup. E³-Flowable, E³-Deep Pour, and E³-Xtreme are the only epoxy grouts on the market to utilize patent pending DL Technology™ aggregate developed by Euclid Chemical researchers that significantly reduces the amount of dust released into the environment during handling and mixing.

E³-FLOWABLE

E³-Flowable is a high flow, high strength, precision epoxy grout designed for large plates and narrow configurations where flowability is critical. With balanced physical properties and excellent resistance to vibration and torque, E³-Flowable is formulated for easy installation, is suitable for pouring or pumping, and can be mixed with a variable amount of aggregate to achieve the exact flow required.

E³-DEEP POUR

E³-Deep Pour is formulated for deep placements up to 18 inches (46 cm) in depth per lift. The DL Technology™ aggregate in E³-Deep Pour can be added in two different proportions to achieve either a standard flow or high flow consistency.

E³-Deep Pour meets the requirements of the American Petroleum Institute Standard 610, Appendix L for Baseplate and Soleplate Grouting.

E³-XTREME

E³-Xtreme is an ultra-high performance epoxy grout with extremely high compressive strength, with very low creep and outstanding effective bearing area. E³-Xtreme is characterized by extremely fast compressive strength development and excellent flowability, properties that are critical for extreme installations such as grouting of wind turbine column bases.


E³ EPOXY GROUTS TYPICAL ENGINEERING PROPERTIES OF STANDARD FLOW MIXES

| PROPERTY | E³-FLOWABLE | E³-DEEP POUR | E³-XTREME |
|---|---|--|---|
| Compressive Strength | 12,500 psi (87 MPa) | 15,000 psi (103 MPa) | 18,000 psi (124 MPa) |
| Compressive Creep | 3.1 x 10 ⁻³ in/in/°F | 3.2 x 10 ⁻³ in/in/°F | 2.4 x 10 ⁻³ in/in/°F |
| Flexural Strength | 4,300 psi (30 MPa) | 4,500 psi (30 MPa) | 5,700 psi (39 MPa) |
| Tensile Strength | 1,900 psi (13 MPa) | 2,100 psi (30 MPa) | 2,400 psi (16 MPa) |
| Bond Strength | 3,500 psi (24 MPa) | 3,600 psi (30 MPa) | 3,900 psi (27 MPa) |
| Coefficient of Thermal Expansion | 16 x 10 ⁻⁶ | 2.8 x 10 ⁻⁶ | 2.2 x 10 ⁻⁵ |
| Effective Bearing Area | > 95% | > 95% | > 95% |
| Working Time | 95 minutes | 90 minutes | 90 minutes |
| Peak Exotherm | 84° F (29° C) | 96° F (35° C) | 168° F (76° C) |
| Minimum/Maximum Placement Thickness per Lift | 1/2 inch (1.3 cm) minimum 6 inches (15 cm) maximum | 1 inch (2.5 cm) minimum 18 inches (46 cm) maximum | 1 inch (2.5 cm) minimum 6 inches (15 cm) maximum |

For additional technical information, refer to the E³-Flowable, E³-Deep Pour, and E³-Xtreme data sheets

SERVICE AND SUPPORT

The Euclid Chemical Company is unique in our offering of superior products, unparalleled customer service and industry support. The Euclid Chemical team delivers a range of value-added resources and in-depth industry experience to architects, designers, engineers, building contractors and owners. Our experts are highly-trained professionals who are available in local offices across the Americas, and are active members on industry technical committees including American Concrete Institute (ACI), International Concrete Repair Institute (ICRI) and American Society for Testing and Materials (ASTM). Our experienced field team is available to support you and your projects using Euclid Chemical solutions and products manufactured under the stringent standards of our ISO 9001 certified quality system. The Euclid Chemical Company works hand-in-hand with customers:

- Supplying field evaluations, recommendations and application problem solving on a project-by-project basis.
- Assisting in product selection, specification, installation and related technology.
- Attending pre-design meetings, assisting in clarifying specifications, and recommending product selection.
- Supporting you by providing proper pre-installation instructions and methods for achieving quality results.

For more than 100 years, The Euclid Chemical Company has served as a leading supplier to the concrete and masonry industry, offering a full line of engineered concrete admixture and construction products marketed under the EUCLID brand name. These products include concrete admixtures, block and masonry additives, curing and sealing compounds, epoxy adhesives, floor and wall coatings, structural grouts for columns, equipment and machinery, joint fillers and repair products. The Euclid Chemical Company strives to bring innovative technologies and products to the concrete market with industry-leading customer service.