

TECHNICAL DATA SHEET

D311

UNDERWATER CURING EPOXY FLUID GROUT

V2-31/03/2024

DESCRIPTION

D311 Underwater Curing Epoxy Fluid Grout is a 2 component, non-shrink, high strength, fluid grout designed for under water or wet conditions. Based on a hydrophobic epoxy resin system it has the unique ability to displace water to ensure good adhesion.

PROPERTIES

- Compressive Strength:
 - 50mPa after 48 hrs @ 25°C
 - 107 mPa after 7 days @ 25°C
- Bond Strength: Concrete Fails
- Self-Levelling
- Pourable
- Moisture Tolerant

RECOMMENDED AREAS FOR USE

- Machine Bedding
- Crusher Backing
- Fixing bolts and anchors into concrete
- Levelling and fixing rail chairs and lugs
- A high strength, pourable, gap filling compound
- A high strength, self-levelling floor

COLOUR	: Grey
N° OF COMPONENTS	: 2
MIXING RATIO (WEIGHT)	: 10 : 1
CONSISTENCY	: Fluid Grout
VOLUME SOLIDS	: 100%
MIXED DENSITY	: 2.07
PRACTICAL SPREAD RATES	: 1m ² /ℓ
POT LIFE @ 25°C	: 1 hr
HARD DRY @ 25°C	: 8 hrs
PRACTICAL CURE @ 25°C	: 24 hrs
FULL CURE	: 7 days
APPLICATION TEMPERATURE	: 10 to 40°C
OPERATING TEMPERATURE	: -20°C to +60°C
CLEANING EQUIPMENT	: D701 WSBC
STORAGE TEMPERATURE	: 10 to 40°C
SHELF LIFE	: 12 months
PACK SIZE	: 15 Kg (7.5ℓt)

CHEMICAL RESISTANCE

Resistant to most dilute acids & alkalis, petroleum products & salt water.

SURFACE PREPARATION

All surfaces must be clean & mechanically sound and free of oil, dirt & dust. Concrete and cement screeds to preferably have a wood float finish, with a minimum compressive strength of 25mPa. Abrasive blast, diamond grind or acid etch to remove laitance.

MIXING

Thoroughly mix the resin and activator in the proportions given, using a slow speed mechanical mixer. Allow to stand for +/-10 minutes to allow air bubbles to escape.

APPLICATION

Pour the mixed epoxy fluid grout into the cavity ensuring the following precautions:

- Allow trapped air to escape.
- A gap of more than 20mm must be allowed for horizontal flow at 25°C.
 - Do not apply below 15°C as the compound will become less fluid.
- Epoxy resin grouts build up heat as they begin to gel due to an exothermic reaction process, especially when large volumes are poured. Contact our technical department for advice.
 - For floors, use notched rake and spike roller.

TOXICITY

Although D311 is relatively non-toxic, it is recommended that the normal precautions in dealing with conventional epoxy resin systems be adhered to. Refer to the 16-point Material Safety Data Sheet.

HOW TO SPECIFY

All equipment to be prepared and grouted into place with D311 Underwater Curing Epoxy Fluid Grout in accordance with the manufacturer's instructions.