TWO-COMPONENT FLUID POLYURETHANE MORTAR FOR TRAM AND METRO BUS RAIL ANCHORING

Ideal for "unconventional" anchoring of above ground tracks



DRACOFLEX TR is a two-component fluid mortar made of polyurethane resins, special admixtures and selected aggregates of various particle size for fixing and anchoring "unconventional" tracks and elements exposed to stresses and dynamic loads. **DRACOFLEX TR** provides dielectric, vibration and noise-reduction properties.

ADVANTAGES

DRACOFLEX TR is a two-component polyurethane resin-based mortar for "unconventional" anchoring of tracks. The product has the following characteristics:

- ✓ **HIGH BOND STRENGTH: DRACOFLEX TR** is shrinkage-free and specifically formulated to ensure strong bonding to the substrate.
- ✓ **SOUND-ABSORBING: DRACOFLEX TR** has high sound-absorbing properties.
- ✓ EXCELLENT CHEMICAL RESISTANCE: DRACOFLEX TR is resistant to industrial environments, elements and aggressive chemicals.
- √ VIBRATION-DAMPING: when subjected to impulsive loads, DRACOFLEX TR has an excellent ability to absorb energy elastically.
- ✓ STRENGTH AND DURABILITY: DRACOFLEX TR has excellent mechanical strength and is resistant to friction and abrasion; it is ideal for precision anchoring of elements exposed to stresses and impacts, while ensuring low maintenance costs.
- ✓ EASY TO APPLY: DRACOFLEX TR can be poured on the substrate; it has good workability (60 minutes) and strength.



USES

DRACOFLEX TR is used for:

"unconventional" fixing and anchoring of tram and metro bus tracks

SUBSTRATE PREPARATION

Prior to application, clean the surface and remove any oil, dust and loose material which could interfere with adhesion. Clean the metal parts by sandblasting or brushing. The surfaces must be dry; remove any water on the surface and dry off any damp areas. Before applying the resin, make sure that the tracks have been properly fixed.

PRIMER APPLICATION - Primer application is required to guarantee proper bonding of DRACOFLEX TR resin-based mortar to the surface. Apply by brush approx. 350 ÷ 400 g/m² of PRIMER ES40 on cured concrete (max moisture content 4.5%).

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PRODUCT PREPARATION

Separately mix contents of each container before use. Pour component B and component A in a suitable container and mix them using a lowspeed mixer for at least 1-2 minutes until a homogeneous mix with no lumps and air bubbles is achieved. Using only part of the components is advised against: an incorrect mix ratio can result in improper curing.

APPLICATION

Immediately after mixing, pour DRACOFLEX TR on the substrate which has been previously treated using PRIMER ES 40 as stated in the paragraph above. Wait for the primer to be touch dry, then apply **DRACOFLEX TR**.

PRECAUTIONS

- Polymerisation time depends on temperature and humidity conditions; the higher the temperature and relative humidity, the shorter the setting time.
- ▶ Use rubber gloves and safety goggles both during application and when cleaning tools.
- Do not apply the resin in case of fog or if rain is expected.

PACKAGING AND STORAGE

DRACOFLEX TR is available in:

- metal pails: 10 kg (A) + 1 kg (B) = 11 kg
- metal pails: 5 kg (A) + 0.5 kg (B) = 5.5 kg

If stored properly in original, undamaged packaging in a dry, sheltered place, at a temperature of at least +10°C, the product retains its properties for one year.



PRODUCT CHARACTERISTICS

APPEARANCE	Paste
COLOUR	Black
DENSITY	1.05 kg/l ± 0.1
PACKAGING	Metal pails: 10 kg (A) + 1 kg (B) = 11 kg Metal pails: 5 kg (A) + 0.5 kg (B) = 5.5 kg

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APPLICATION SPECIFICATIONS

MIX	RATIO	A:B=10:1
APPI	LICATION TEMPERATURE	+5°C to +35°C
WOR	KABILITY - POT-LIFE (+20°C - 50% R.H.)	approx. 20 minutes

Times vary depending on substrate temperature and ambient temperature and humidity.

Unless otherwise stated, the values given in the table are indicative and calculated at a temperature of 20°C and relative humidity of 50%.

PERFORMANCE CHARACTERISTICS

BOND STRENGTH TO CONCRETE after 7 days	UNI EN 1542 UNI EN 12615	approx. 1 MPa approx. 3 MPa
BOND STRENGTH TO STEEL after 7 days	UNI EN 1542 UNI EN 12615	approx. 1 MPa approx. 1 MPa
SHORE A HARDNESS (ASTM D2240)	- after 7 days - after 100 hours UV radiation - UNI 7097 - after 200 hours UV radiation - UNI 7097 - after 75,000 dynamic fatigue cycles at 1.0 MPa in tension - UNI 6356	approx. 45 approx. 45 approx. 45 approx. 50
COMPRESSIVE MODULUS OF ELASTICITY (ASTM D695)	 - after 7 days - after 100 hours UV radiation - UNI 7097 - after 200 hours UV radiation - UNI 7097 - after 75,000 dynamic fatigue cycles at 1.0 MPa in tension - UNI 6356 	approx. 4.2 MPa approx. 4.4 MPa approx. 4.7 MPa approx. 4.4 MPa
LINEAR DEFORMATION UNDER COMPRESSION at 0.6 MPa in tension (ASTM D695)	 - after 7 days - after 100 hours UV radiation - UNI 7097 - after 200 hours UV radiation - UNI 7097 - after 75,000 dynamic fatigue cycles at 1.0 MPa in tension - UNI 6356 	approx. 16% approx. 16% approx. 16% approx. 16%
TENSILE MODULUS OF ELASTICITY after 7 days	ASTM D 638	approx. 2.8 MPa
TENSILE STRENGTH after 7 days	ASTM D 638	approx. 1 MPa
ELONGATION AT BREAK after 7 days	ASTM D 638	approx. 85%
TEAR STRENGTH after 7 days	DIN 53515	approx. 7 kN·m ⁻¹
COEFFICIENT OF THERMAL EXPANSION after 7 days	UNI EN 1770	approx. 174·10 ⁻⁶
DIELECTRIC PROPERTIES	INSTRUCTION FS 44/E	> 30 GΩ (insulating)