

EPOTAR 40

SOLVENT-FREE TWO-COMPONENT EPOXY-HYDROCARBON COATING FOR THE PROTECTION OF CONCRETE AND STEEL STRUCTURES



EPOTAR 40 is a two-component product based on solvent-free epoxy-hydrocarbon resins. **EPOTAR 40** has excellent waterproofing, elasticity and flexibility characteristics. **EPOTAR 40** is among the most widely used products for waterproofing and cold protective treatments of concrete and metal structures.

ADVANTAGES

EPOTAR 40 is a two-component epoxy-hydrocarbon coating for the protection of concrete structures. The product has the following characteristics:

- ✓ **High elasticity:** Coatings made with **EPOTAR 40** are characterised by high elasticity and flexibility.
- ✓ **High adhesion to concrete:** **EPOTAR 40** has excellent adhesion to concrete and steel.
- ✓ **High resistance to freeze-thaw cycles:** The adhesion and elasticity characteristics of **EPOTAR 40** are preserved even after the coating is subjected to freeze-thaw cycles.
- ✓ **Resistant to hydrocarbons:** **EPOTAR 40** is resistant and impermeable to oils, petrol, kerosene and automotive fuels in general.
- ✓ **Excellent chemical and wear resistance:** **EPOTAR 40** has high resistance to abrasion and chemical aggression.
- ✓ **Ease of application:** **EPOTAR 40** is easily applied by brush, roller or spray.

AREAS OF APPLICATION

With **EPOTAR 40** you can easily produce waterproof and flexible continuous coverings ideal for:

- ✓ Protective waterproofing of tanks, purifiers, sewage pipes, submerged structures or structures subject to freshwater and seawater shorelines, floats, oil pipelines, penstocks.



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INSTRUCTIONS FOR USE

CLEANING THE SUBSTRATE

- ▶ **Remove all loose parts** of concrete from the area concerned, including grout slurry, using a chisel or hydro-washer and taking care not to damage the structures.
- ▶ **Remove stains, efflorescences or impregnation** of grease oil, paints, lime, dust, dirt, etc.;
- ▶ **Remove all traces of dust, dirt or any residue that may cause the coating to detach.**

PREPARATION OF THE SUBSTRATE

- ▶ **Roughen the surface** with mechanical means such as bush-hammering, chiselling, or hydrodemolition (the latter does not cause damage to the substrate and is recommended for large areas) until you reach a layer of healthy and compact concrete, in order to ensure adhesion between the mortar and substrate.
- ▶ **Any obvious holes, cracks or irregularities** must be repaired (with **EPOMALT/EP FIX**).
- ▶ In the case of a porous substrate, to prevent the formation of bubbles in the **EPOTAR 40** film, apply 50 g/m² of **WEPOX PRIMER** as an impregnating and saturating agent for the substrate.

PREPARATION OF THE MIXTURE

The components of **EPOTAR 40** are supplied in two separate containers.

A – basic formulation

B – hardener

Both must be mixed thoroughly, each in its own container. Avoid taking partial quantities from the packages to avoid any errors in the ratio that would cause failure or incomplete curing. Mix the entire amount of component A with component B. Continue mixing for 6-8 minutes until the components are perfectly homogeneous.

LAYING

Once thoroughly mixed, **EPOTAR 40** can be applied. After application of the PRIMER, but no more than 24 hours later, apply **EPOTAR 40** in pure or diluted form with a roller, brush or spray. The yield can be from 150 to 350 g/m² per coat depending on the type of substrate. To obtain good protection, the minimum thickness applied should never be less than 150 µm, while the maximum thickness should not normally exceed 600 µm. **EPOTAR 40** does not tolerate sudden temperature changes above 50°C.

PACKAGING AND STORAGE

EPOTAR 40 is packaged in:

- 5 kg drum + 5 kg drum
- 10 kg drum + 10 kg drum

In the original packaging and properly stored indoors in a dry place, the product maintains its characteristics for one year.



CHARACTERISTICS OF THE PRODUCT

	COMPONENT A	COMPONENT B
APPEARANCE	viscous liquid	viscous liquid
DENSITY - EN ISO 2811	1.8 kg/l	1.9 kg/l
PACKAGING	5 kg drum 10 kg drum	5 kg drum 10 kg drum
STORAGE	12 months	12 months

APPLICATION SPECIFICATIONS 20°C - 50% R.H.

COLOUR OF MIXTURE	Black
MIXING RATIO	1:1
SPECIFIC WEIGHT OF MIXTURE - EN ISO 2811	1.85 kg/m ³
DRY RESIDUE	100%
APPLICATION TEMPERATURE	+10 to +35°C
MAXIMUM OPERATING TEMPERATURE	R.H. 80-95% (humid atmosphere): approx. 63°C R.H. 30-40% (dry air): approx. 105°C
YIELD	250 to 350 g/m ² per coat depending on substrate 500 g/m ² (minimum recommended)
WORKABILITY - UNI EN ISO 9514	120 minutes approx. (at +20°C and 50% R.H.)
TOUCH DRY	24 hours approx. (at +20°C and 50% R.H.)
COMPLETE CURING	7 days approx.

PERFORMANCE CHARACTERISTICS 20°C - 50% R.H.

PERFORMANCE CHARACTERISTIC	PRODUCT PERFORMANCE
ADHESION TO CONCRETE UNI EN 1542	> 1.5 MPa
ELONGATION AT BREAK	60-70%

Legal notes - SLCMP version of 01.03.2017

Draco Italiana s.p.a., for the values and technical data in this Data Sheet, adopts the parameters shown on the Data Sheet with the relative standards of reference.

The Customer is required to verify that this sheet and the values shown are valid for the batch of product of interest and are not exceeded as they are replaced by subsequent editions. In case of doubt, please check the technical data sheet with the one in force at the time of completion of the sales contract on the website www.draco-edilizia.it, and/or contact the Technical Office.

Any advice relating to the use of the Products, provided by our personnel in verbal or written form at the Customer's request, does not constitute an ancillary obligation of the purchase contract, and cannot in any way represent a contractual service. It is based on our experience and limited to the current state of practical and /or scientific knowledge; it is therefore not binding on the customer or the applicator. In particular, the Customer is required to test our products to check their suitability in relation to the type of application and intended use, and remains solely responsible for the choices made.