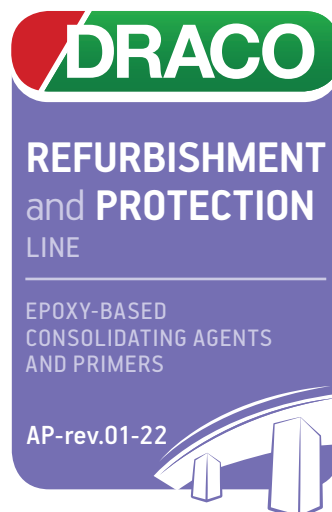


ARMOPRIMER 100

ENVIRONMENTALLY-FRIENDLY TWO-COMPONENT
SOLVENT-FREE EPOXY PRIMER



ARMOPRIMER 100 is a fluid primer based on epoxy resins with high consolidating properties. It penetrates deep into the material and consolidates the surface of porous concrete and masonry substrates. It also enhances the adhesion of ARMOSHIELD C carbon fibre strips which can be bonded to it. In case of extremely absorbent/porous substrates it is recommended to use the solvent-based PRIMER ES40. **ARMOPRIMER 100** is a component of the **ARMOSHIELD-C onsite strengthening system**, which has obtained the **Technical Assessment Certificate no.11 of 25-01-2019** for intended use.

ADVANTAGES

ARMOPRIMER 100 is an epoxy primer for consolidating substrates and enhancing bonding during the application of ARMOSHIELD C carbon fibre strips and sheets.

The product characteristics are the following:

- ✓ **Easy application.**
- ✓ **High penetration into substrates.**
- ✓ **Waterproofing and consolidation of surfaces.**
- ✓ **The cross-linked structure wraps and welds in-depth the substrate materials, thus giving high surface strength to the structures.**

USES

ARMOPRIMER 100 is particularly suited to the following applications:

- ✓ surface consolidation of porous substrates;
- ✓ application in closed environments and on damp substrates;
- ✓ as bonding primer to promote adhesion during the application of ARMOSHIELD carbon fibre strips and sheets;
- ✓ to prime the hole walls prior to the installation of the ARMOGRIP connectors;
- ✓ as protective primer prior to coating decks and flooring with protective epoxy resins, high-end polyurethanes or waterproof sheaths.

APPLICATION INSTRUCTIONS

PRODUCT PREPARATION

Premix the two components separately in their own pails before adding component B (hardener) to component A (base). Mix the combined material for 3 to 5 minutes using a low-speed drill with mixing paddle. Using only part of the components is advised against: an incorrect mix ratio can result in improper curing.

APPLICATION

ARMOPRIMER 100 can be applied by roller, brush or airless sprayer. Consumption is between 200 to 300 g/m² per coat, depending on surface profile and porosity.

PRECAUTIONS

Wear rubber gloves and goggles both while working and while cleaning tools.



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PACKAGING AND STORAGE

ARMOPRIMER 100 is available in:

- 1 kg pails (A) + 0.5 kg pails (B) = 1.5 kg
- 6 kg pails (A) + 3 kg pails (B) = 9 kg
- 12 kg pails (A) + 6 kg pails (B) = 18 kg

If stored properly in undamaged unopened, original packaging, in dry conditions at temperatures of at least +10°C, the products maintain their characteristics for a year.



PRODUCT CHARACTERISTICS AND APPLICATION SPECIFICATIONS

APPEARANCE	liquid
WORKING LIFE	at 10°C 90 minutes / at 23°C 72 minutes / at 30°C 45 minutes
TOUCH DRY AT 20 °C	18 hours
HARD DRY	10 days at 20°C
WAITING TIME/OVERCOATING	at 10°C within 24 hours of installation at 23°C within 12 hours of installation at 30°C within 6 hours of installation
MINIMUM APPLICATION TEMPERATURE	+5°C / +35°C

GEOMETRICAL AND PHYSICAL PROPERTIES	TEST METHOD	ARMOPRIMER 100
PROPERTY	REFERENCE STANDARD	
Density at +23 °C (*)	UNI EN ISO 1675	1.07 g/ml ± 0.01
Viscosity at +23 °C - spindle 1 at 50 rpm (*)	UNI EN ISO 2555	650 mPa s ± 200
Ratio of catalyst by weight (*)	UNI EN ISO 2555	2:1
Pot life at +23 °C (*)	ISO 10364	72 minutes
Tensile modulus of elasticity (*)	UNI EN ISO 527	1800 MPa (average value)
Flexural modulus of elasticity (*)	UNI EN ISO 178	1292 MPa (average value)
Tensile strength (*)	UNI EN ISO 527	25.54 MPa (average value)
Flexural strength (*)	UNI EN ISO 178	32.93 MPa (average value)
Tensile strain (*)	UNI EN ISO 527	6.3% (average value)
Compressive strength	EN 12190	60 MPa
Bond strength to concrete (*)	UNI EN 12636	3.4 MPa (average value)
Glass transition temperature (*)	EN 12614	+58°C
Limit temperatures of use	CNR DT200-R1/2013	-10°C to +43°C
Reaction to fire	ISO EN 13501-1	NPD

(*) Official tests certified by the independent laboratory ELLETIPI - Cert. no. 45843/17 of 17/11/17.

Legal notes - SLCMP version of 01.03.2017

Draco Italiana s.p.a. has adopted the parameters indicated in this data sheet and the related standards for the calculation of the values and technical data contained herein. Customers shall verify that this data sheet and the values indicated herein apply to their product batch and have not been superseded by later editions. If in doubt, verify that the sheet corresponds to the one available on the website www.draco-edilizia.it at the time the sales contract was executed and/or by previously contacting the Technical Department. Any suggestions on the use of the Products provided by our personnel either orally or in writing upon the Customer's request do not constitute additional obligations to the purchase contract and do not imply a contractual obligation for the company. They are based on our experience and limited to the current state of practical and/or scientific knowledge. They are not binding for the client or for the installer. It is the Customer's responsibility to test our products and verify they are suitable for the type of application and use envisaged.