EP-145 Kartus



Epoxy-based, two-component, cartridge chemical anchor

Description
Two-component, epoxy-based, thixotropic, moisture-tolerant, cartridge-type chemical anchor.

Advantages
- Adheres well to concrete and steel,
- Has high adhesion, compressive strength, and abrasion resistance,
- Exhibits high chemical resistance,
- Does not flow or sag,
- Provides adhesion on damp surfaces,
- Cures rapidly,
- Can be used both as an adhesive and as a filling material,
- Easy to apply.
-

Areas of Use
- For rebar planting, anchoring of prefabricated elements, and fixing of injection packers and accessories,
- For anchoring and repair of reinforcement bars and threaded rods to concrete, hollow or solid brick,
- For repair and insulation of cracks,
- For anchoring, installation, and bonding of all types of metal and steel components to concrete and steel structural elements,
- For anchoring bolts and pins,
- For all types of anchoring applications in concrete,
- Can be used for fixing injection packers and accessories.

Surface Preparation
The surface to be treated must be cleaned of dust, oil, and construction residues, and any damaged or loose concrete on the surface should be removed. The application surface must be clean, sound, and have sufficient compressive strength. The application area should be cleared of dust and debris using compressed air or a pumping method..

Application
Open the caps on the Hammerfast EP-145 cartridge by twisting them. Screw on the static mixing nozzle supplied with the product by turning it clockwise. Place the Hammerfast EP-145 cartridge into the cartridge gun and you may start the application. If the application is interrupted, the used nozzle must be removed; a new nozzle should be attached before resuming application.

Drill a hole with the required diameter and depth according to the size of the anchoring element to be used, using a rotary hammer drill. The drilled hole must be cleaned starting from the bottom using a brush, compressed air, or a pump. No dust, dirt, oil, or other foreign substances should remain inside the hole.

Press the trigger until the two separate components inside the cartridge are discharged from the static mixer as a fully mixed material, and while dispensing, slowly withdraw the cartridge from the hole. Care must be taken to avoid air voids. An extension nozzle may be used for deep holes. Insert the anchoring element by rotating it into the hole, and after a small amount of resin flows out, the anchoring element must be positioned in the hole within the curing time of the resin. During curing, the anchoring element must not be moved under any circumstances.

Consumption table

Rebar Diameter (mm)	Hole Diameter (mm)	Hole Depth (mm)	Required Material (ml)	Number of Dowels That Can Be Installed (pcs)
10	14	140	11,6	32
12	16	160	15,3	24
14	18	180	20	19
16	20	200	25	15
18	22	220	30,5	12
20	24	240	37	10
22	26	260	43,2	9
24	28	280	50,4	8
26	30	300	58,2	7
28	32	320	71,5	5

Curing time table

Application Temperature	Start of Curing Time	End of Curing Time	Underground Wet Curing
+ 5 ^{0}C	25 min.	120 min.	240 min.
+ 10 ^{0}C	15 min.	80 min.	160 min.
+ 20 ^{0}C	6 min.	45 min.	90 min.
+ 30 ^{0}C	4 min.	25 min.	50 min.
+ 35 ^{0}C	2 min.	20 min.	40 min.

AYK Yapı Kimyasalları San. ve Tic. Ltd. Şti.
Orhaniye Mah. 2076. Sok. No: 4 K.Kazan/Ankara
Tel: +90 313 815 48 15 / Fax: +90 313 815 48 16
E-mail : info@ayk.com.tr / Web: www.ayk.com.tr

AYK Yapı Kimyasalları San. ve Tic. Ltd. Şti. is not responsible for any application errors that may occur if the product is used outside its intended purpose or if the instructions above are not followed.

20.10.2025 / 00

EP-145 Kartus



Epoxy-based, two-component, cartridge chemical anchor

Important Notes

- The product components are ready for use; no thinners or similar materials should be used during application or mixing.
- During application, the ambient, surface, and material temperatures must be within the specified limit values.
- In low-temperature and high-humidity environments, the curing time of the adhesive increases, while in high-temperature and low-humidity environments, the curing time decreases (see the curing table).

Safety Precautions

- Keep out of reach of children.
- Do not eat or ingest.
- Keep away from foodstuffs.
- Do not inhale and avoid skin contact.
- May cause allergic reactions.
- In case of eye contact, rinse immediately with plenty of water and seek medical advice.
- Wear gloves, goggles, and protective clothing during handling.
- Wash hands thoroughly with water after use.
- For detailed safety information, refer to the Material Safety Data Sheet (MSDS).

Storage and Shelf Life

When stored in its original, unopened packaging in a dry, moisture-free environment, protected from direct sunlight and frost, and at temperatures between +10 °C and +30 °C, the shelf life of Components A and B is 12 months from the production date. If not used, the packaging must be tightly sealed. Pallets must not be stacked.

Packaging

410 ml cartridge

Technical Properties

Color	A = Cream / B = Black / A + B = Grey
Chemical structure	Epoxy resin
Density (A+B)	1,40±0,1 kg/L
Solid content	% 100 (by volume)
Working time	4-8 min.
Curing time	45-60 min.
Application temperature	+5 ^{0}C / +30 ^{0}C
Material temperature	+15 ^{0}C / +30 ^{0}C
Service temperature	-30 ^{0}C / +100 ^{0}C
Compressive strength (EN 196-1)	~ 90 N/mm^2 (24 hours)
Flexural strength (EN 196-1)	~ 15 N/mm^2 (24 hours)
Tensile strength (DIN EN 196)	24 saat= > 3,5 N/mm^2 (Concrete) 24 saat = > 15 N/mm^2 (Steel)
Tensile strength in bending (EN 196-1)	~ 60 N/mm^2 (24 hours)
Abrasion resistance (EN 13892-4)	10 µm
Fire classification (EN 13501-1)	E_{FL}

Note: The values are given for a temperature of 23 ± 2 °C and a relative humidity of 50 ± 5%.

Cleaning of Tools

Clean the equipment immediately after application using epoxy thinner or a suitable cleaner. Cured material must be removed mechanically.

Quality Certificates

- CE
- ISO 9001
- ISO 14001

9001:2015 14001:2015

AYK Yapı Kimyasalları San. ve Tic. Ltd. Şti.
Orhaniye Mah. 2076. Sok. No: 4 K.Kazan/Ankara
Tel: +90 313 815 48 15 / Fax: +90 313 815 48 16
E-mail : info@ayk.com.tr / Web: www.ayk.com.tr

AYK Yapı Kimyasalları San. ve Tic. Ltd. Şti. is not responsible for any application errors that may occur if the product is used outside its intended purpose or if the instructions above are not followed.

20.10.2025 / 00