

Guarri GU-P ECO, GU-P ECO E, GU-P ECO C Polyester Chemical Anchor

POLYESTER STYRENE FREE FOR NON-CRACKED CONCRETE AND MASONRY

INTRODUCTION

Guarri GU-P ECO, GU-P ECO E, GU-P ECO C Polyester Chemical Anchor is a styrene-free polyester injection mortar (10:1 by volume) for fastening threaded rods in non-cracked concrete, masonry and hollow building materials. Fast, temperature-adapted curing (standard, winter and tropical grades) and very low odour make it the practical choice for railings, fences, canopies, pipe supports and light to medium structural fixings.



FEATURES & BENEFITS

- European Technical Assessment for non-cracked concrete C20/25 to C50/60
- Threaded rod M8–M24 covered by the assessment
- Suitable for dry, wet and water-filled boreholes
- Approved for hammer and compressed air drilling
- Working life of 50 years
- Three climate grades – installation from –20 °C (winter) to +44 °C (tropical)
- Service temperature range –40 °C to +80 °C
- Styrene free, very low odour
- Fast curing – loading after 50 min at +20 °C (standard grade)
- Also suitable for masonry, perforated brick and other base materials
- Overhead installation with piston plug ($d_0 \geq 24$ mm)



APPLICATIONS



Handrails and fences



Balcony parapets and canopies



Machinery and racking



Pipe and ventilation systems



Masonry support and facade elements

ANCHORING ILLUSTRATIONS



Fixture connected to concrete with threaded rod



APPROVALS & LISTINGS

- ETA according to EAD 330499 for metal-to-concrete connections – ETA-25/0639
 - non-cracked concrete C20/25 to C50/60
 - threaded rod M8 to M24
 - working life 50 years



ETA-25/0639

- French VOC
 - A+ rating



Technical Assessment Body: CPC Belgelendirme Muayene ve Deney Hizmetleri Tic. Ltd. Şti., Çamlıca Mah. Anadolu Blv. No:20-R Blok No:4 Yenimahalle/Ankara.
Legal basis: Regulation (EU) No 305/2011; AVCP system 1. Design according to EN 1992-4:2018, EOTA TR 055 (2018).

**Guarri GU-P ECO, GU-P ECO E, GU-P ECO C Polyester Chemical Anchor****PROPERTIES OF CHEMICAL ANCHOR**

Properties	Method	Unit	Conditions	Results
Colour	Internal	-	-	Grey
Density	ASTM D1875	g/ml	+20 °C	1,70
Heat deflection temperature (HDT)	ASTM D648	°C	-	83
Tensile strength	ASTM D638	N/mm ²	+20 °C	12,1
Tensile modulus	ASTM D638	N/mm ²	-	4200
Compressive strength	BS 6319	N/mm ²	-	82
Chloride ion content	EN 1015-17	%	-	0,0056
Service temperature	-	°C	long term max. +50 °C	-40 to +80