



Guarri GU-V PLUS, GU-V PLUS T, GU-V PLUS A Vinylester Chemical Anchor

FAST CURING VINYLESTER FOR NON-CRACKED & CRACKED CONCRETE

INTRODUCTION

Guarri GU-V PLUS, GU-V PLUS T, GU-V PLUS A Vinylester Chemical Anchor is a styrene-free vinylester injection mortar (10:1 by volume) for fastening threaded rods and reinforcing bars in cracked and non-cracked concrete. Its fast, temperature-adapted curing (Standard, Arctic and Tropical grades) and low odour make it the practical choice for everyday structural fixings, on site and indoors alike.



FEATURES & BENEFITS

- European Technical Assessment for cracked and non-cracked concrete C20/25 to C50/60
- Threaded rod M8–M30 and reinforcing bar Ø8–Ø32 covered by the assessment
- Suitable for dry, wet and water-filled boreholes
- Approved for hammer and compressed air drilling
- Seismic performance category C1
- Working life of 50 years
- Three climate grades – installation from –20 °C (Arctic) to +45 °C (Tropical)
- Service temperature range –40 °C to +80 °C
- Odourless, styrene free, low VOC (French A+)
- Fast curing – loading after 35 min at +25 °C (Standard grade)
- Also suitable for masonry, perforated brick and other base materials
- Low shrinkage, thixotropic paste for overhead and horizontal installation



APPLICATIONS



AC support on brick



Steel columns



Stairs



Seismic bracing



Reinforcement of structures

ANCHORING ILLUSTRATIONS



Fixture connected to concrete with threaded rod



Rebar anchored to concrete

**APPROVALS & LISTINGS**

- ETA-25/0644 – bonded fastener for use in concrete (EAD 330499-02-0601)
 - cracked and non-cracked concrete
 - M8–M30 and Ø8–Ø32
 - seismic C1
 - 50 years
- CE marking (AVCP system 1, certificate pending)
- Post-installed rebar ETA (EAD 330087) – pending

Technical Assessment Body: CPC Belgelendirme Muayene ve Deney Hizmetleri Tic. Ltd. Şti., Mutlukent Mah. 1991. Sok. No:8/1 Çankaya/Ankara. Legal basis: Regulation (EU) 2024/3110, Article 95(4); AVCP system 1. Design according to EN 1992-4:2018, EOTA TR 055 (2018).

**Guarri GU-V PLUS, GU-V PLUS T, GU-V PLUS A Vinylester Chemical Anchor****PROPERTIES OF CHEMICAL ANCHOR**

Properties	Method	Unit	Conditions	Results
Colour	Internal	-	-	Grey
Density	Internal	g/ml	-	1,70
Shore D hardness	ISO 868	-	-	85
Compressive strength	EN 1290	MPa	-	99
Tensile strength	ISO 527	N/mm ²	-	28
Flexural strength	ISO 178	N/mm ²	-	58
Water resistance	-	-	-	resistant
Specific contact resistance	IEC 60093	$\Omega \cdot \text{cm}$	-	2×10^{13}
UV resistance	-	-	-	not resistant
VOC content	SCAQMD Rule 1168	-	-	A+