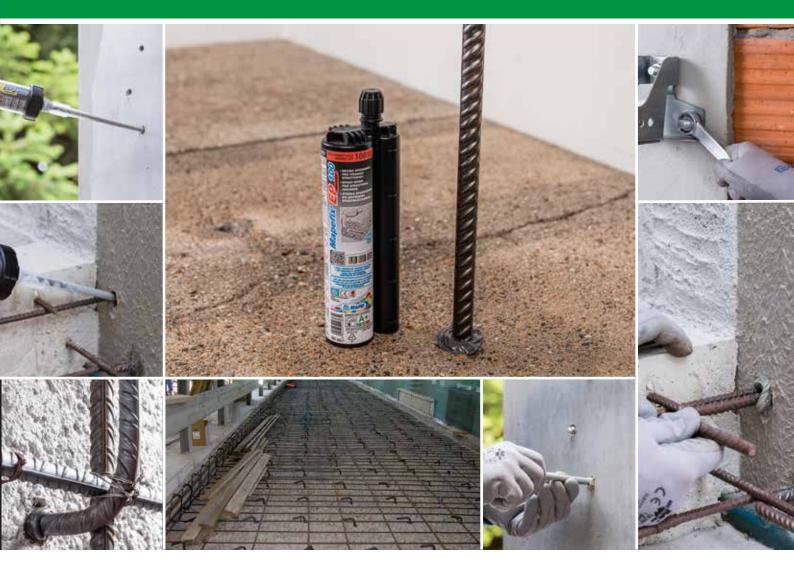
SELECTION CHART OF PRODUCTS FOR CHEMICAL ANCHORS

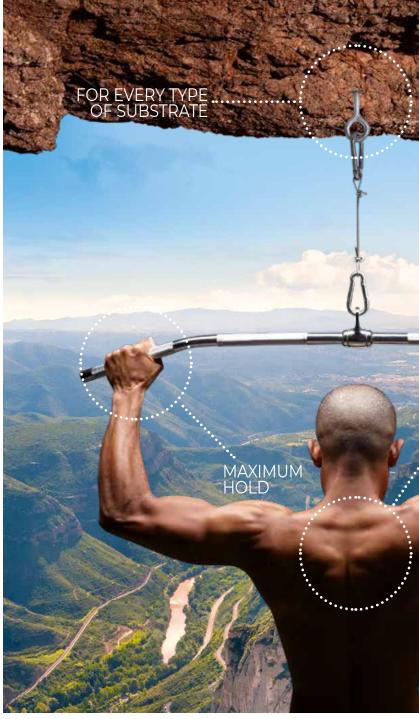




MAPEI QUALITY CHEMICAL ANCHORS

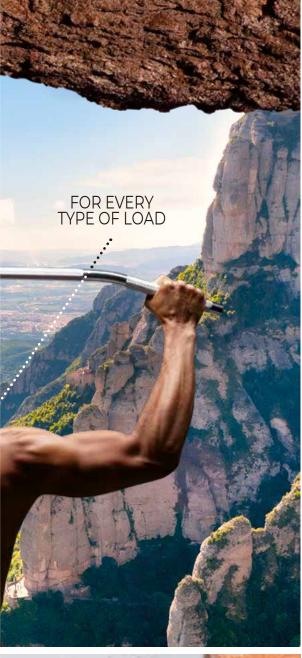
Mapei's experience in the building and construction field has been applied to the chemical anchors sector, with a range of products that are simple to choose and employ. They have such a high level of hold and reliability that they are a better option compared with mechanical fastening systems.

With the products on offer from the **Mapefix range**, Mapei highlights once again their vocation for producing only the highest quality products with total reliability in their results; safe, versatile, efficient solutions for all your anchoring needs during both the design phase and on site.













ADVANTAGES THROUGHOUT THE ENTIRE RANGE

Mechanical fastening systems used in the building industry generally consist of a threaded component inside a cylindrical body with moving parts.

When the threaded part is turned it causes the moving parts in the cylindrical body to expand and, through the friction generated, prevent the fastener from slipping. Loads on the substrate, therefore, are localised and irregular.

Chemical anchors, on the other hand, allow for a more even distribution of loads along the whole surface of the wall of the hole, which means the pitch between each anchor, the depth of each hole and the distance of anchors from edges may all be reduced, highly beneficial in terms of improved performance and reliability over the years.

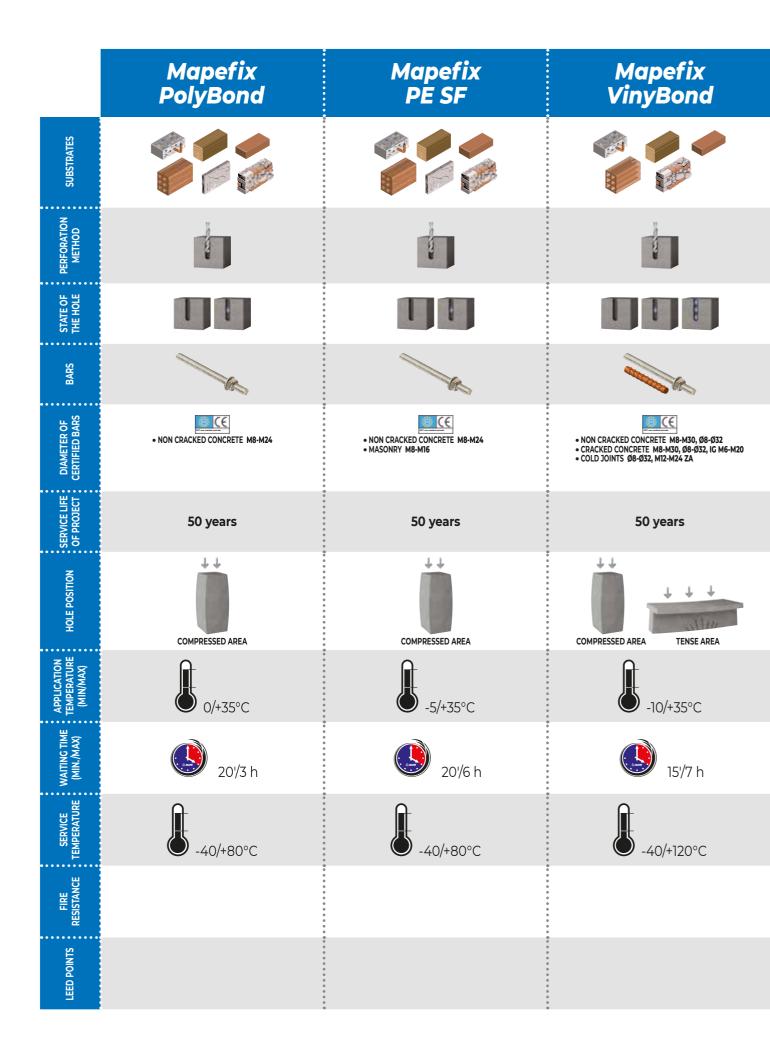
Also, since chemical anchors are compatible with every type of substrate and drilling method used, they simplify site logistics.





CONCENTRATED LOAD







THE IDEAL SOLUTION FOR ALL YOUR ANCHORING NEEDS

The **Mapefix** range offers all the best solutions for all your anchoring needs: from light loads right up to the most demanding structural requirements.

HEAVY LOADS FOR CONCRETE AND MASONRY



Mapefix PolyBond

POLYESTER RESIN

ideal for anchors in non cracked concrete, also suitable for masonry and damp holes





HEAVY LOADS FOR CONCRETE AND MASONRY



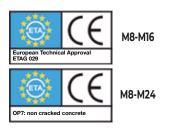
300 ml

420 ml

Mapefix PE SF

SOLVENT-FREE POLYESTER RESIN

ideal for anchors in masonry and non cracked concrete, also in damp holes







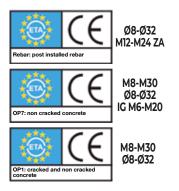
300 ml

420 ml

Mapefix VinyBond

SOLVENT-FREE VINYLESTER RESIN

ideal for anchors in cracked or non cracked concrete, cold joints, also in wet holes





STRUCTURAL LOADS FOR ALL TYPES OF MATERIAL



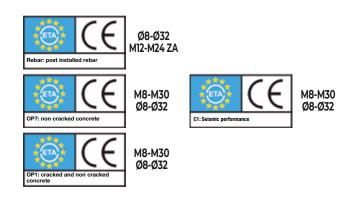
300 ml

825 ml

Mapefix VE SF

SOLVENT-FREE VINYLESTER RESIN

ideal for anchors in cracked or non cracked concrete, cold joints, seismic areas (C1 class), also in flooded holes





STRUCTURAL LOADS FOR ALL TYPES OF MATERIAL

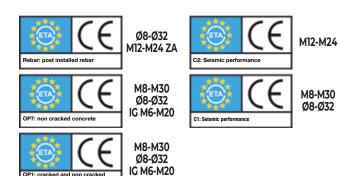


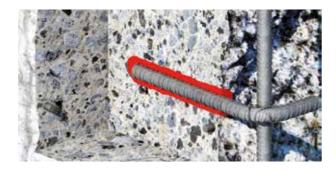


Mapefix UM-H

URETHANE-METHACRYLATE HYBRID RESIN

ideal for anchors in cracked or non cracked concrete, cold joints, seismic areas, (C1 and C2 class), also in flooded holes, even with high service temperatures





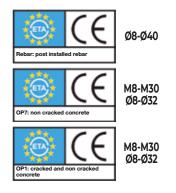
STRUCTURAL LOADS FOR ALL TYPES OF MATERIAL

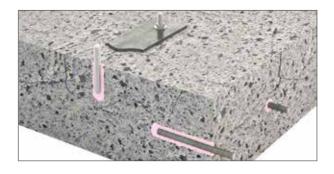


Mapefix EP 50

PURE SOLVENT-FREE EPOXY RESIN

ideal for anchors in cracked or non cracked concrete, cold joints, smooth or rough and in flooded holes





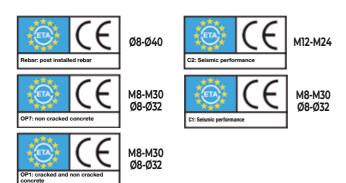
STRUCTURAL LOADS FOR ALL TYPES OF MATERIAL



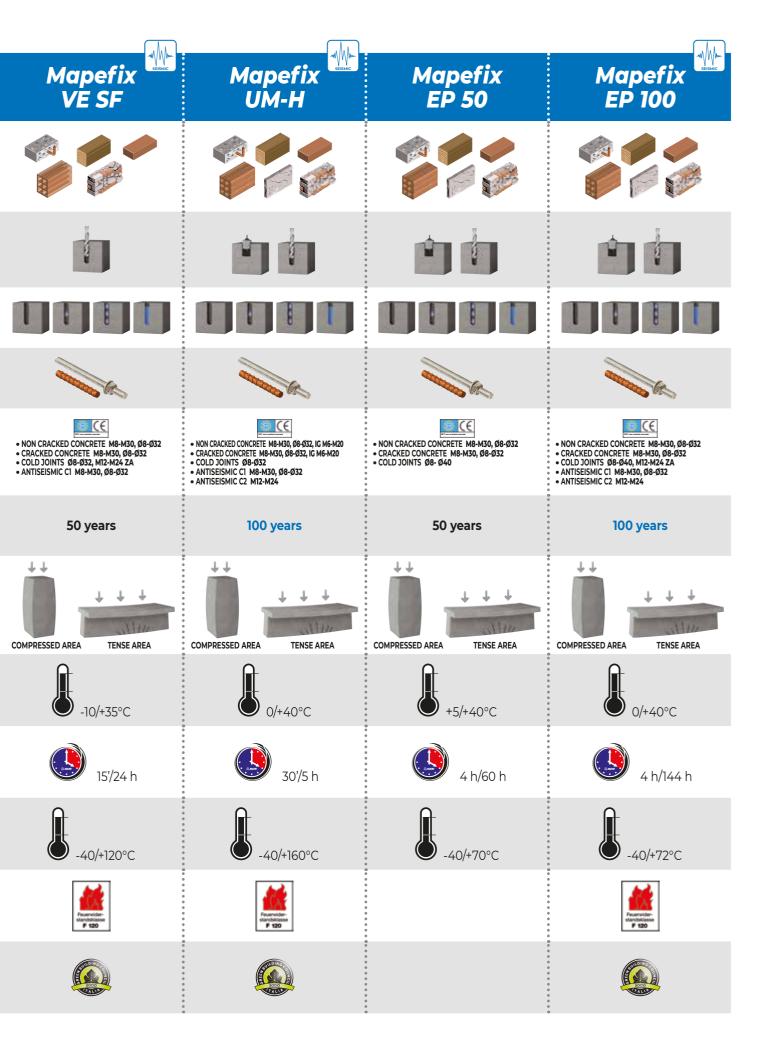
Mapefix EP 100

PURE SOLVENT-FREE EPOXY RESIN

ideal for anchors in cracked or non cracked concrete, cold joints, seismic areas, (Cl and C2 class) smooth or rough and in flooded holes



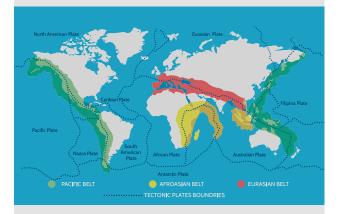






PRODUCTS CERTIFIED ACCORDING TO EOTA FOR STATIC, DYNAMIC AND SEISMIC LOADS

ETA system certifications, emitted by independent entities recognised by EOTA (European Organisation of Technical Assessment), are the best guarantee for the reliability and reproducibility of all **Mapefix** chemical anchors performances. ETA certifications guarantee that all performances among substrate/chemical anchor and metal bar are certain, replicable and verifiable, because they have been obtained according to EAD specifications (European Assessment Document) for static, dynamic, seismic and fire loads.



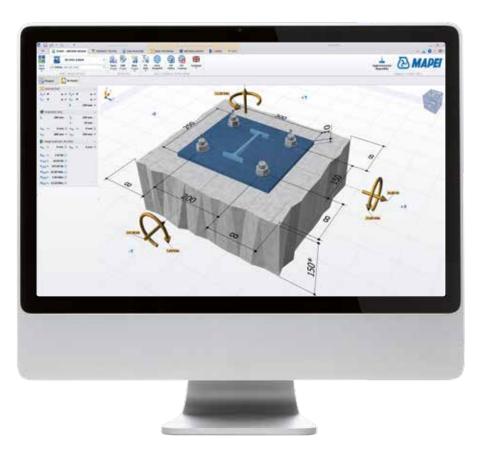
MAPEFIX MEANS TOTAL ANTI-SEISMIC SECURITY

Earthquakes are the consequences of continuous movement of the tectonic plates composing Earth's crust. Said movement causes friction and releases energy manifesting in natural phenomena such as earthquakes. Design criteria for buildings in seismic areas, defined in Europe by EN 1992-4:2018 (part of Eurocode 2), require the use of chemical anchor that are certified for seismic classes C1 and C2.

classification of buildings according to strategic Importance											
public		private									
		residential		commercial		industrial and manufacturing					
hospitals	cat. IV	private homes	cat. II	hotels	cat. III	power stations	cat. III to IV				
government buildings	cat. IV	apartment blocks	cat. II	shopping centres	cat. III	activities with a high impact on the environment	cat. III to IV				
emergency services	cat. IV	rural	cat. I	offices	cat. III	petrochemical	cat. III				
airports	cat. IV					activities with a low impact on the environment	cat. II				
schools	cat. III						cat. I				
infrastructures	cat. II to IV										

seismic certification for chemical anchors											
ground peak acceleration	intensity of seismic activity		non-structural anchors	structural anchors							
		cat. I buildings	cat.I and II buildings	cat. IV buildings	cat I buildings	cat II, III and IV buildings					
< 0.05 g	low		NO	NO	NO	NO					
0.05 to 0.1 g	medium	NO	СІ	C2		C2					
> 0.1 g	high		C2								

Cl seismic classification: **Mapefix VE SF**, **Mapefix UM-H**, **Mapefix EP 100** C2 seismic classification: **Mapefix UM-H**, **Mapefix EP 100**



SUPPORT AND TOOLS FOR DESIGNERS AND CONTRACTORS

Technicians and designers can now count on a tool that can be downloaded from our website *www.mapei.com*: **Mapei Design Fix**.

A specific technical software package developed in compliance with current European standards to help calculate the correct dimensions of an anchor using resins form the **Mapefix** range. Furthermore, Mapei Technical Services Department provides a personalised technical consultancy service to assist designers and contractors and meet their specific anchoring needs.

ANCHORING ACCESSORIES FOR MORE PRACTICAL OPERATIONS

To help make anchoring operations even simpler, quicker and safer, Mapei has developed a series of specific accessory items: **tools, instruments and complementary materials**.

Their use helps optimise application procedures and prevents wasting products, even in the most demanding situations and site conditions.





EVERYTHING'S OK, WITH MAPEI

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