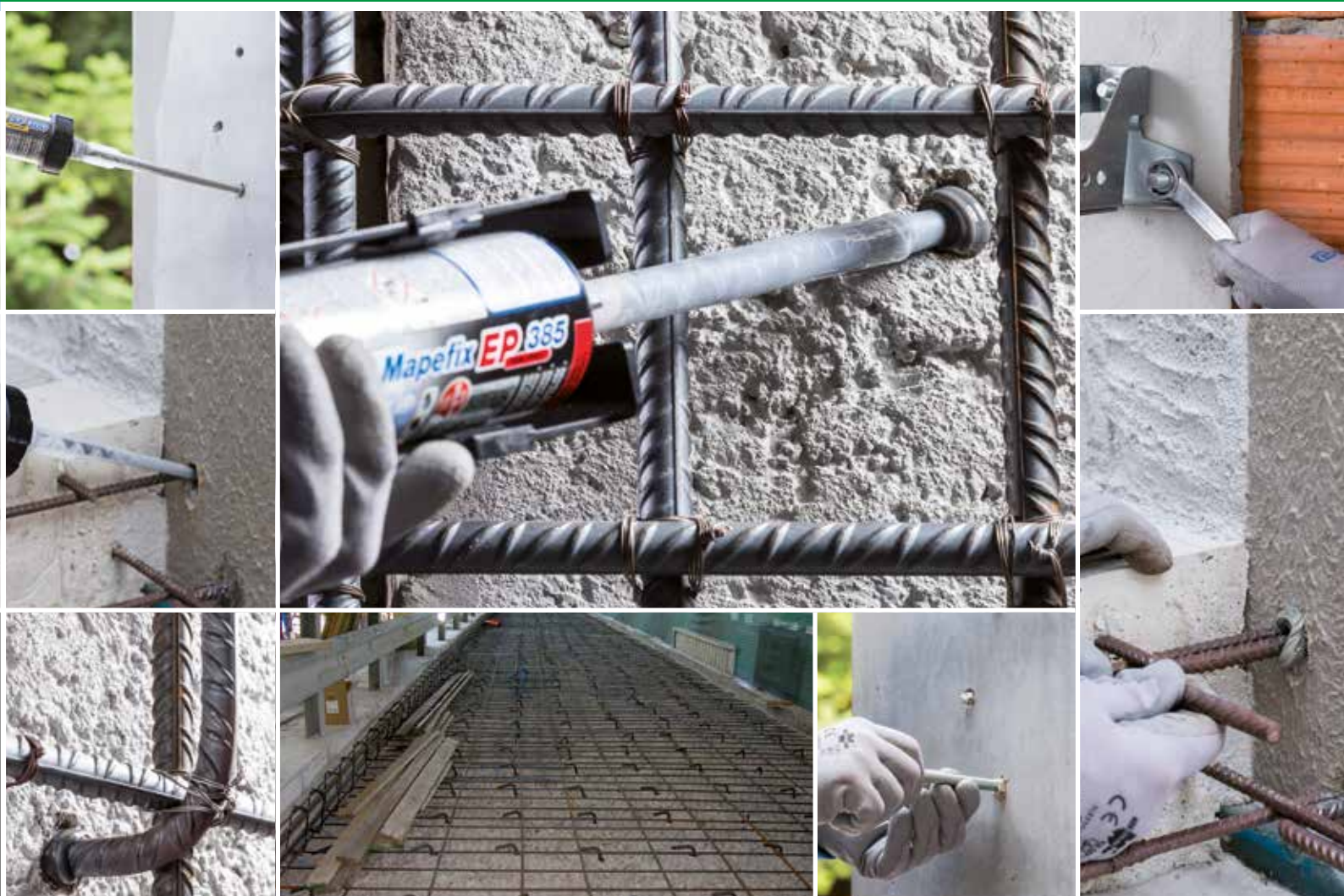


# SELECTION CHART OF PRODUCTS FOR CHEMICAL ANCHORS

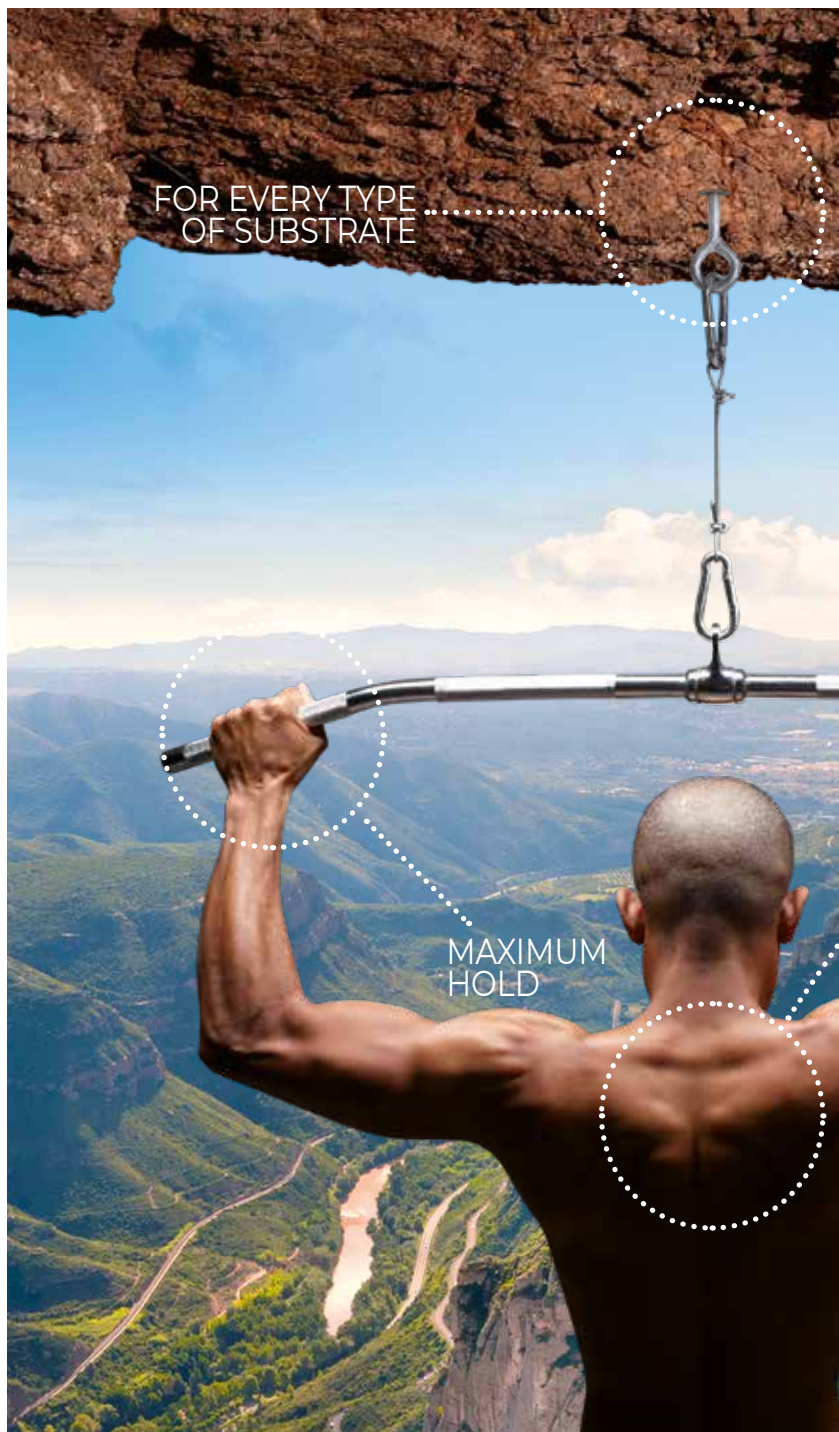




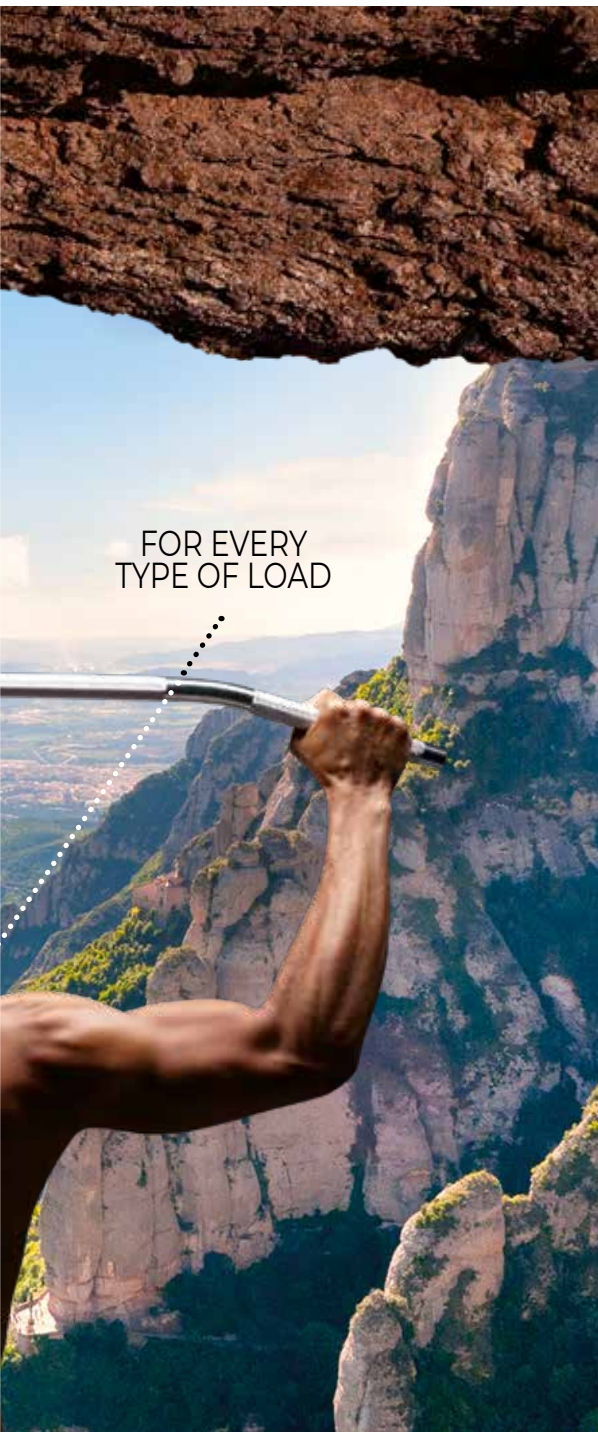
# MAPEI QUALITY CHEMICAL ANCHORS

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.

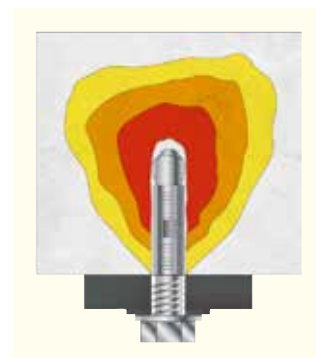


### CHEMICAL ANCHORS


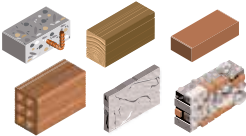
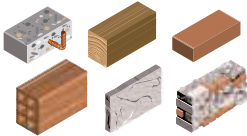
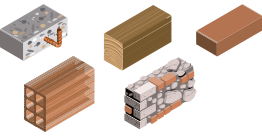




















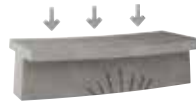














EVEN LOAD DISTRIBUTION

### MECHANICAL FASTENER



UNEVEN SPOT LOADING

	Mapefix PE Wall	Mapefix PolyBond	Mapefix PE SF	Mapefix VinyBond
SUBSTRATES				
PERFORATION METHOD				
STATE OF THE HOLE				
THREADED BARS				
AVAILABLE CERTIFICATIONS				
DIAMETER OF CERTIFIED BARS	M8-M12	M8-M24	M8-M16 M8-M24	M8-M30, Ø8-Ø32 M8-M30, Ø8-Ø32 Ø8-Ø32
HOLE POSITION	 COMPRESSED AREA	 COMPRESSED AREA	 COMPRESSED AREA	 COMPRESSED AREA  TENSE AREA
APPLICATION TEMPERATURE (MIN/MAX)	 0/+30°C	 0/+35°C	 -5/+35°C	 -10/+35°C
WAITING TIME (MIN/MAX)	 20/3 h	 20/3 h	 20/6 h	 15/7 h
SERVICE TEMPERATURE	 -40/+50°C	 -40/+80°C	 -40/+80°C	 -40/+120°C
FIRE RESISTANCE				
LEED POINTS				

# THE IDEAL SOLUTION FOR ALL YOUR **ANCHORING NEEDS**

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

LIGHT LOADS  
FOR MASONRY



## **Mapecfix PE Wall**

**SOLVENT-FREE POLYESTER RESIN**

Ideal for anchors in brickwork, stone masonry, mixed masonry, solid and perforated blocks



M8-M12

HEAVY LOADS  
FOR CONCRETE

**NEW**



## **Mapecfix PolyBond**

**POLYESTER RESIN**

Ideal for anchors in non-cracked concrete even in damp holes



M8-M24





HEAVY LOADS  
FOR CONCRETE AND MASONRY



**Mapefix PE SF**

SOLVENT-FREE POLYESTER RESIN

Ideal for anchors in non-cracked masonry,  
also in wet holes



M8-M16



M8-M24

STRUCTURAL LOADS  
FOR CONCRETE AND MASONRY



**Mapefix VinyBond**

SOLVENT-FREE VINYLESTER RESIN

Ideal for anchors in cracked or non-cracked concrete  
second pours, also in wet holes



Ø8-Ø32  
M12-M24 ZA



M8-M30  
Ø8-Ø32



M8-M30  
Ø8-Ø32

## STRUCTURAL LOADS FOR ALL TYPES OF MATERIAL



300 ml

420 ml

825 ml

### **Mapefix VE SF**

#### SOLVENT-FREE VINYLESTER RESIN

ideal for anchors in cracked or non-cracked concrete  
second pours, seismic areas, also in wet holes

## STRUCTURAL LOADS FOR ALL TYPES OF MATERIAL



420 ml

### **Mapefix UM-H**

#### URETHANE-METHACRYLATE HYBRID RESIN

ideal for anchors in cracked or non-cracked concrete  
second pours, seismic areas, (C1 and C2 class), also  
in wet holes, it adheres even with high temperatures



M8-M30  
Ø8-Ø32



Ø8-Ø32  
M12-M24 ZA



M8-M30  
Ø8-Ø32



M8-M30  
Ø8-Ø32



M12-M24



M8-M30  
Ø8-Ø32



Ø8-Ø32  
M6-M20 IG



M8-M30  
Ø8-Ø32



M8-M30  
Ø8-Ø32

STRUCTURAL LOADS  
FOR ALL TYPES OF MATERIAL



## Mapefix EP

### SOLVENT-FREE EPOXY RESIN

ideal for anchors in cracked or non-cracked concrete second pours, seismic areas, (C1 and C2 class), smooth or rough and in wet holes



M12-M16



M12-M30  
Ø12-Ø32



M10-M24  
Ø10-Ø25



Ø8-Ø40



M8-M30  
Ø8-Ø32



M12-M30  
Ø12-Ø32

STRUCTURAL LOADS  
FOR ALL TYPES OF MATERIAL



## Mapefix EP 470 Seismic

### SOLVENT-FREE EPOXY RESIN

ideal for anchors in cracked or non-cracked concrete second pours, seismic areas, (C1 and C2 class) also in wet holes



M16-M24



Ø8-Ø32



M8-M30



M16-M24

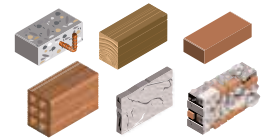
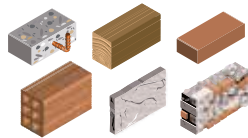
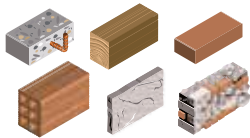
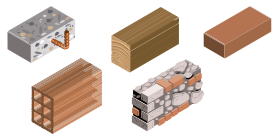


## Mapefix VE SF

## Mapefix UM-H

## Mapefix EP

## Mapefix EP 470 Seismic



■ NON CRACKED CONCRETE  
■ CRACKED CONCRETE  
■ SECOND POURS  
■ ANTISEISMIC



■ NON CRACKED CONCRETE  
■ CRACKED CONCRETE  
■ SECOND POURS  
■ ANTISEISMIC



■ NON CRACKED CONCRETE  
■ CRACKED CONCRETE  
■ SECOND POURS  
■ CRACKED HOLE  
■ ANTISEISMIC



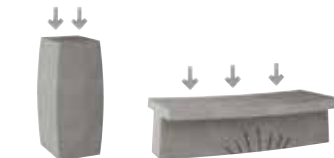
■ NON CRACKED CONCRETE  
■ CRACKED CONCRETE  
■ SECOND POURS  
■ ANTISEISMIC

■ M8-M30, Ø8-Ø32  
■ M8-M30, Ø8-Ø32  
■ Ø8-Ø32, M12-M24 ZA  
■ C1: M8-M30, Ø8-Ø32

■ M8-M30, Ø8-Ø32  
■ M8-M30, Ø8-Ø32  
■ Ø8-Ø32, M6-M20 IG  
■ C1: M8-M30, Ø8-Ø32  
■ C2: M12-M24

■ M8-M30, Ø8-Ø32  
■ M12-M30, Ø12-Ø32  
■ Ø8- Ø40  
■ M10-M24, Ø10-Ø25  
■ C1: M12-M30, Ø12-Ø32  
■ C2: M12-M16

■ M8-M30  
■ M12-M24  
■ Ø8- Ø32  
■ C1-C2: M16-M24

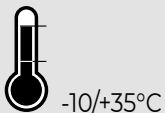


COMPRESSED AREA TENSE AREA

COMPRESSED AREA TENSE AREA

COMPRESSED AREA TENSE AREA

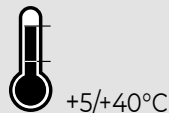
COMPRESSED AREA TENSE AREA



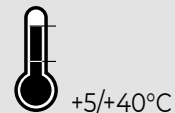
-10/+35°C



0/+40°C



+5/+40°C



+5/+40°C



15'/24 h



30'/5 h



4 h/50 h



12 h/54 h



-40/+120°C



-40/+160°C



-40/+72°C



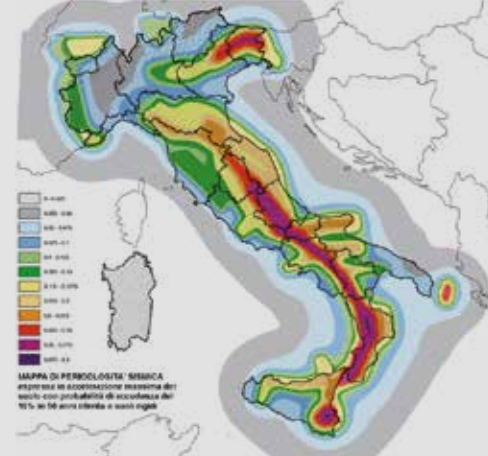
-40/+80°C





# PRODUCTS CERTIFIED ACCORDING TO EOTA FOR STATIC AND DYNAMIC LOADS

Apart from complying with the requirements of Eurocode standards, the Technical Reports issued by EOTA (European Organisation of Technical Assessment), which have the most severe guidelines in the anchoring sector (ETAG 001, TR029, TR023 and ETAG 029), are testimony of the superior reliability of the **Mapefix** range of products. The parameters for chemical anchors used by EOTA take into consideration not only static loads, but also dynamic loads, particularly loads generated by seismic activity (ETAG 001 and TR 45).



# 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](http://www.mapei.com):

## **Mapefix Software Design.**

A specific technical software package developed in compliance with current European standards to help calculate the correct dimensions of an anchor using resins from 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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