## ZERO REPAIR MORTARS

Building a sustainable future together

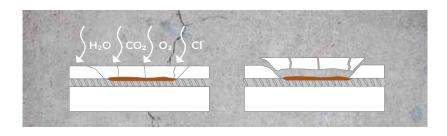






#### Crack resistance for higher durability

Every day, buildings are subjected to dynamic stresses that lead, in the long term, to the opening of cracks into concrete elements. These cracks not only cause structural damage but also represent a way for aggressive agents to enter such as **carbon dioxide** and **chlorides** which, combined with water and oxygen action, generate the beginning of **corrosion** phenomena.





 ${\rm CO_2}$  emissions measured throughout the life cycle of products from the **ZERO line** in 2023 using Life Cycle Assessment (LCA) methodology, verified and certified with EPDs, have been offset through the acquisition of certified carbon credits in support of renewable energy and forestry protection projects. A commitment to the planet, to people, and to biodiversity. For more details on how emissions are calculated and on climate mitigation projects financed through certified carbon credits, visit **ZERO.mapei.com**.

Thanks to their special formulation, **ZERO repair mortars** have excellent fatigue resistance, which has been proven by tests in external laboratories.



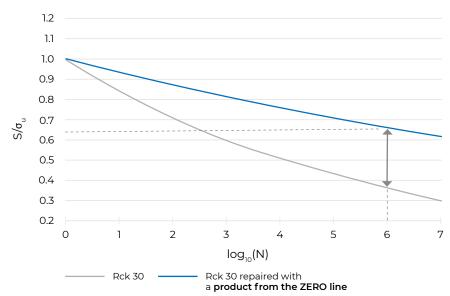
#### **Objectives**

- Increase in dynamic flexural strength of repaired concrete elements.
- · Increased resistance to cracking.

#### Test results

- · High cracking resistance.
- · High fatigue strength.

The graph shows how a mortar from the **ZERO Line**, used to repair concrete, is able to increase its dynamic flexural strength characteristics. Specifically, it can be seen that with the same number of load cycles, the dynamic flexural strength is significantly higher.





#### Mapefer 1K ZERO



#### Planitop Smooth & Repair ZERO



### Planitop Smooth & Repair R4 ZERO

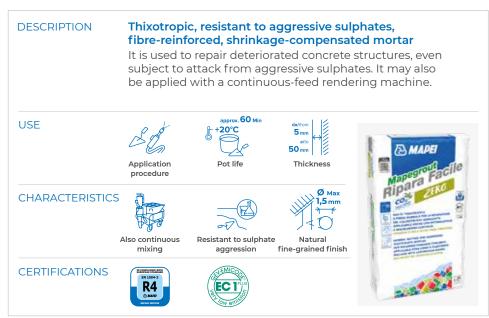


#### Mapegrout 430 ZERO





#### **Mapegrout Easy Repair ZERO**



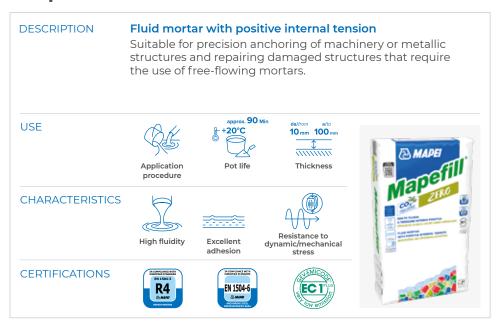
## **Mapegrout Thixotropic ZERO**



#### **Mapegrout Hi-Flow ZERO**



#### Mapefill ZERO





# EVERYTHING'S **OK**WITH **MAPEI**

HEAD OFFICE MAPEI SpA Via Cafiero, 22 20158 Milan +39-02-37673.1 mapei@mapei.it mapei.com

