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System Minéral  
**MURALPLAST MP QUARTZ**  
High Performance Mineral Coating

**Muralplast**<sup>®</sup>  
mp quartz

## System Minéral

Muralplast MP Quartz is a surface treatment well suited to all masonry and mineral based surfaces on historic buildings and modern architecture, providing an aesthetically pleasing natural finish in a wide range of colours.

## Why System Minéral?

Extreme weather conditions and temperature changes make severe demands on all external coatings and Muralplast MP Quartz has been successfully providing unsurpassed protection in such environments for over 50 years world-wide and throughout the UK.

It was for example used in the 1970’s for the UK Government to treat the external surfaces of coastal weather stations at Combe Martin, Tyree and Prestwick and, on the other extreme, to coat and protect Pilkington GRC panels in the dry heat of the Middle East.

In another example, Easington Council in County Durham researched all available coatings and treatments and found only Muralplast MP Quartz was able to solve ongoing water ingress into the sandlime bricks of over 200 houses. Thirty years on we are reliably informed by Easington Council that Muralplast MP Quartz is still providing protection to these buildings.

## Unique Formulation

The success of Muralplast MP Quartz lies in its unique formulation which uses a high percentage of fine granular quartz - one of the hardest minerals known. The size of the quartz used is important and each granule is of equal size. When it rains, the quartz granules absorb a small amount of water and expand. This provides a water repellent surface, however, unlike conventional coatings which seal the surface, Muralplast MP Quartz allows the substrate to breathe, letting the moisture contained in every external wall, evaporate through it.

## Muralplast MP Quartz benefits include:

- Allows the substrate to ‘breathe’ enabling moisture to evaporate whilst providing a water repellent surface
- Completely eliminates breakdown and delamination of external decoration
- Dries out dampness within a building eliminating deterioration to internal decoration and damp patches
- Excellent adhesion properties and can be applied to any substrate
- Can be applied to damp surfaces including where rising damp is present
- Quartz is the most stable form of silicon dioxide under extreme temperatures and pressures and so is ideal for all climates and situations



50% of the product is quartz

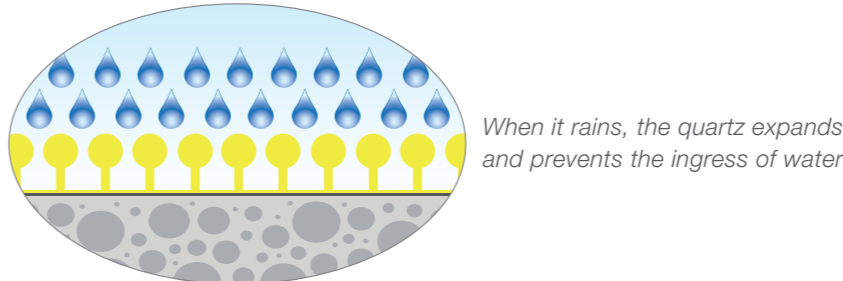
## What Makes Muralplast MP Quartz So Effective?

Muralplast MP Quartz comprises a high percentage of fine quartz granules.










Under magnification it can be seen that the granules of quartz are of uniform size, without dust or powder, sand or cement. They make up almost 50% of the coating, giving Muralplast MP Quartz its outstanding durability.

In the grade used, the quartz is not soluble in water but in site conditions will absorb a small amount of water and expand when it rains. Together with the resin, the quartz forms a completely hydro-repellent surface, preventing the ingress of water. However, it does not seal the substrate and therefore permits the passage of moisture vapour from within, allowing it to evaporate into the atmosphere.

This is achieved by the granules permitting osmosis in the dry state, a process which can dry out a damp wall.



## Energy Savings Over Whole Life Cycle

Life Expectancy over 30 Years																																
Years	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Notes	
Minéral										M										M										M	3 x Maintenance Cycles	
Masonry Paint					R					R					R					R					R					R	6 x Re-decoration Cycles	

## Tried and Tested Performance

Muralplast MP Quartz has been proven in use in many hundreds of applications throughout the UK and worldwide and its performance has also been tested for the following:

- Fire - meets all the requirements of Class 0
- Water Penetration
- Abrasion Resistance
- Chemical Resistance
- Mould Growth
- Colour Fastness

In all tests, Muralplast MP Quartz reaches a very high standard.

