# ELIOFLEX Quarz


**Technical Data Sheet No. 2411171710**

| | |
|---|---|
| **Denomination** | **ELIOFLEX Quarz** |
| **Description** | Fine-Grained Acrylic-Siloxane Water-Based Wall Paint with a “Worm” Effect |
| **Product Details** | Filling matte acrylic-siloxane water-based wall paint, reinforced with synthetic fibers, suitable for the protection of thermal insulation systems, crazed surfaces, paints and wall coatings (in general) with or without macro-cracks issues. Excellent filling power; it offers good water vapor permeability. Excellent flexibility even at very low temperatures. It contains cracks up to 500 µm wide. |
| **VOC Classification (Directive 2004/42/EC)** | One-Pack Performance Coatings.<br>EU limit value for this product (cat. A/i): 140 g/l (2010)<br>This product contains max. 120 g/l VOC |
| **Surface Preparation & Application** | **SUBSTRATES WITH NEW PLASTERS**<br>• After the plaster has been cured, it is always advisable to apply a coat of water-based **Eliofond Acrilico**.<br>• Allow at least 12 hours to elapse for drying and apply the first coat of **Elioflex Quarz** with a roller.<br>• It is always advisable to apply the product as it is to obtain an adequate thickness (minimum 700 µm of dry paint film), that is sufficient to contain macro-lesions.<br><br>**SUBSTRATES WITH OLD PAINTS AND VISIBLE LESIONS**<br>• It is always recommended to apply a coat of solvent-based **Eliowall Primer**.<br>• Allow at least 6 ÷ 8 hours to elapse and start the restoration procedure by applying **Elioflex Fibro** on the cracks with a brush, filling them.<br>• In the case of cracks up to 1 mm wide, proceed with the application of polyester mesh portions along the lesion dorsal, that will be drowned with a first coat of **Elioflex Quarz** (applied with a trowel).<br>• Allow at least 24 hours to elapse before applying the second coat of **Elioflex Quarz**.<br>• It is always advisable to apply the product as it is to obtain an adequate thickness (minimum 700 µm of dry paint film), that is sufficient to contain macro-lesions. |
| **Practical Advices** | Room Temperature: Min. 5°C / Max. 30°C<br>Relative Humidity: Min. 35% / Max. 85%<br>Substrate Conditions: Dry |
| **Available Sizes** | 20 Kg |
| **Storage** | • Keep container tightly closed in a dry, cool place.<br>• Storage Temperature: up to 5°C / below 35°C.<br>• Shelf Life: 24 months under optimal temperature and R.H. conditions. |
| **Safety Standards** | Product labeled according to **Regulation 1272/2008 (CLP)**.<br>For further information, reference should be made to the related Material Safety Data Sheet. Empty containers or containers with slight film traces of dried residual product must be disposed of in accordance with local requirements. |

# ELIOFLEX Quarz



| Technical Features | Laboratory Data @ 20°C (68°F), 65% R.H. |
|---|---|
| Vehicle Type | Acrylic-Siloxane Resins |
| Specific Weight | 1.900 gr/litrer |
| % Solids | By Weight: 84,0 %<br>By Volume: 68,0 % |
| Color | White Integrated in **Eliocolor Performance** Tintometric System |
| Viscosity<br>Brookfield RVT at 20°C and 20 rpm | 35.000 ÷ 45.000 cps |
| Components | One |
| Dilution (V/V) | Ready-to-Use |
| Thin With | Water (only for tools cleaning) |
| Tools | Trowel |
| Dry Film Thickness per Coat | 820 µm |
| Coverage at Recommended Film Thickness | 0,830 m²/liter – 0,437 m²/kg |
| Consumption per Coat | 2.228 gr/m² |
| Dry to Touch | 5 ÷ 6 hours |
| Dry to Handle | 24 hours |
| Dry to Recoat | Min.12 hours |
| Dry Film Appearance<br>Specular Gloss @ 60°C | Semi-Matte<br>< 30 - ≥ 10 gloss |
| Resistance to Rural, Light Industrial and Marine Environments | Excellent |
| Temperature Resistance | From -25°C to +50°C |
| Rainwater Resistance | The product completes its cross-linking process over a period of 12-15 days under optimal conditions |
| Elasticity | Good |

# ELIOFLEX Quarz



## Performance Classification according to European legislation EN 1062

| | |
|---|---|
| Film Appearance | $G_3$ ..... Matte ..... 1G.U. 85° |
| Dry Film Thickness | $E_5$ .....> 400 µm |
| Grain Size (EN ISO 1524) | $S_2$ ..... Medium ..... < 1.200 µm |
| Vapor Permeability (UNI EN ISO 7783:2012)<br>**"CERTIMAC" Test Report of 03/07/2018** | $V_2$ .....Medium ..... ≤ 150 - > 15 g/(m² • d)<br>**( = 135 g/m²d. )** |
| Water Permeability<br>**"CERTIMAC" Test Report of 03/02/2018** | $W_3$ ..... Low.....≤ 0,1 kg/(m² • h $^{0,5}$ )<br>**( = 0,04 kg/m² h $^{0,5}$)** |
| $CO_2$ Permeability<br>**"CERTIMAC" Test Report of 03/22/2018** | $C_1$.....Mean value of the thickness of the equivalent layer of air $S_d$ > 50 m.<br>***( $S_d$ = 78,5 m ) - The coating is suitable for applications that prescribe "anti-carbonation" products*** |
| Cracking Resistance (UNI EN 1062-7)<br>**"CERTIMAC" Test Report of *03/29/2018*** | ***The Coating is in Class A2, (Crack-bridging): for tests carried out at +23°C***<br>***The Coating is in Class A3, (Crack-bridging): for tests carried out at -10°C*** |
| Solar Reflectance and Thermal Emittance (ASTM C 1371-04a)<br>**"CERTIMAC" Test Report of 02*/26/2018*** | ***Average Solar Reflectance, a = 0.75***<br>***Thermal Emittance, E = 0.92*** |
| Thermal Conductivity<br>(UNI EN 1745; ASTM E 1530, UNI EN 12664)<br>**"CERTIMAC" Test Report of 02*/28/2018*** | ***Average Paint Film Thickness ( = 1,366 mm )***<br>***Thermal Conductivity ( = 0,174 ÷ 0,193S W/mk )*** |
| Numerical Evaluation of the Contribution to Thermal Transmittance of Masonry Walls Subjected to Vertical Load<br>(UNI EN ISO 6946)<br>**"CERTIMAC" Test Report of *03/01/2018*** | ***Traditional Walls:***<br>▪ ***% Variation compared to the standard U-Value ( = 1,092 )***<br>▪ ***Thermal Transmittance U-Value ( = 1,448 W/m² k)***<br>***Cutting-Edge Walls:***<br>▪ ***% Variation compared to the standard U-Value ( = 0,200 )***<br>▪ ***Thermal Transmittance U-Value ( = 0,251 W/m² k)*** |

**THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED ON OUR RESEARCH AND ARE BELIEVED TO BE ACCURATE, BUT NO WARRANTY, EXPRESS OR IMPLIED, IS MADE OR SHOULD BE INFERRED. PURCHASERS SHOULD TEST THE PRODUCTS TO DETERMINE ACCEPTABLE QUALITY AND SUITABILITY FOR THEIR OWN INTENDED USE. NOTHING CONTAINED HEREIN SHALL BE CONSTRUED TO IMPLY THE NONEXISTENCE OF ANY RELEVANT PATENTS OR TO CONSTITUTE A PERMISSION, INDUCEMENT OR RECOMMENDATION TO PRACTICE ANY INVENTION COVERED BY ANY PATENT, WITHOUT AUTHORITY FROM THE OWNER OF THE PATENT. FOR FURTHER INFORMATION, DO NOT HESITATE TO CONTACT OUR TECHNICAL TEAM.**