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|  FRAGMAT Core of Protection | TECHNICAL DATASHEET 15-01-23 |
| | ThermoFix F65 High quality adhesive for thermal insulation boards |

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| Product: | FRAGMAT ThermoFix F65 is cement-based adhesive enriched with polymers. It provides high initial and final adhesion strength and elasticity. It is classified as a GP CS IV W2 rendering mortar according to EN 998-1. CE marked. |
| Supplier: | Fragmat Mak Doo Industrial zone - Karposh, Str.221, n175, Kumanovo, 1300 Part of Fragmat Group Slovenia (www.fragmat.si) |
| Size, packaging: | 25 kg/bag; 48bags/pallet |
| Application: | ThermoFix F65 is used for bonding thermal insulation boards of expanded and extruded polystyrene, mineral wool. Also it can be used as a base coat with reinforcing fiberglass mesh on façade insulation boards, serving as ideal substrate for the final coat of render. |
| Form: | Cement, high quality granulated limestone and special high quality additives. |

| Properties | Relevant standards | Technical data |
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| Quantity | Manufacturer's declared value | 25kg (±1%)/bag |
| Necessary quantity of water (for mixing) | Manufacturer's declared value | ~6.5 - 7,5 liter/bag |
| Consumption | Manufacturer's declared value | ~3.0 - 4.5 kg/m ² (as adhesive) ~1.5 kg/m ² /mm (as reinforced mortar) |
| Flexural strength | EN 1015-11 | 5.5 N/mm ² |
| Compressive strength | EN 1015-11 | 14 N/mm ² |
| Bond strength adhesion to concrete (28 days) | EN 1542 | 2,2 N/mm ² |
| Bond strength adhesion to EPS (28 days) | EN 13494 | 0,18 N/mm ² |
| Bond strength adhesion to XPS (28 days) | EN 13494 | 0,35 N/mm ² |
| Bond strength adhesion to MW (28 days) | EN 13494 | 0,11 N/mm ² |
| Capillary water absorption coefficient | EN 1015 – 18 | 0.15 kg / (m ² *min ^{0.5}) |
| Pot Life | EN 1015-9 EN 998-1:2016 / EN 13449:2003 / ETAG 004 | 4h at (+)20°C |
| Thermal conductivity coefficient (λ_{10,dry}) | EN 1745 | 0.65 W/(m.K) at P=50% |
| Water-vapour diffusion coefficient (μ) | EN 1745:2020 | 15/35 |
| Temperature of application | Manufacturer's declared value | (+)5 – (+)30°C |

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|  | EN 998-1 General purpose rendering mortar (GP) for external use | Reaction to fire: Class A1 Adhesion: 2,2 N/mm ² – FP: A Water absorption: W2 Water vapour diffusion coeff.: μ 15/35 Thermal conductivity: (λ _{10,dry}) 0,65 W/mK |
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| Storage and handling Under dry conditions, protected against wetness and moisture. In case of unopened package and the prescribed storage and handling conditions, the expiry date of the product is 12 months after production |
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| Guarantee, warranty In accordance with the current legislations and the conditions of the distributor. The observation of the application rules of the product and presentation of the invoice constitute a prerequisite for possible future warranty claims. Guidelines regarding the planning and application of external thermal insulation systems (ETICS) must be considered. |
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| Standards, specifications EN 998-1:2016 In accordance with GUIDELINE FOR EUROPEAN TECHNICAL APPROVAL of EXTERNAL THERMAL INSULATION COMPOSITE SYSTEMS (ETICS) WITH RENDERING – ETAG 004 |
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| Health and safety In accordance with the relevant Safety Data Sheet & DoP -15-01/23: FRAGMAT ThermoFix F65 |
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This datasheet corresponds to our current knowledge, experiences and general information on the subject, but may be revised as new knowledge and/or experience becomes available. It does not imply any legally binding assurance. The product possesses the given technical characteristics. Since all variations of end-using of the product can not be anticipated, the aplicator/end-user's responsibility to make sure of the suitability of this product for particular purposes, structures. This technical datasheet is applied to products sold by Fragmat Mak doo and valid until withdrawal or until modification.