



TECHNICAL DATA SHEET – DENSIT® COAT Q5

Revised: 10/2021

DESCRIPTION

Densit® Coat Q5 is a shrinkage compensated high performance spraying mortar with extreme capability to bind to old as well as new concrete surfaces.

Densit® Coat Q5 provides an impermeable barrier that effectively prevents chloride ion ingress.

Densit® Coat Q5 is especially suitable for patching of spalled concrete and resurfacing of damaged concrete, or as top layer coating for Densit® Coat Q25 ("wet-in-wet" or "wet-in-dry").

Densit® Coat Q5 is applied in layers of 3 to 8 mm on vertical as well as horizontal surfaces — even over-head on horizontal surfaces.

Densit® Coat Q5 is CE-marked acc. to EN 1504-3 as a class R4 repair product.

STEP-BY-STEP

- The concrete surface is prepared, and damaged reinforcement steel is replaced
- Dry mortar is mixed with water
- The wet mortar is sprayed on the concrete surface in layers 3 to 8 mm thick
- Densit® Coat Q5 is suitable as top layer coating for Densit® Coat Q25 ("wet-in-wet" or "wet-in-dry")
- The surface must be protected against evaporation/drying-out

DENSIT® COAT Q5

- HYDRAULIC MORTAR FOR REPAIR OF CONCRETE STRUCTURES

TECHNICAL DATA

| PROPERTIES | STANDARD | VALUE | REQUIREMENT (EN 1504-3) |
|---|---------------|------------------------------------|---------------------------------------|
| Compressive strength - MPa | EN 12190 | 7 days: 50.5 28 days: 65.4 | Class R4: ≥ 45 |
| Flexural strength - MPa | EN 196-1 | 7 days: 8.0 28 days: 9.7 | - |
| Elastic modulus - GPa | EN 13412 | 31.0 | Class R4: ≥ 20 |
| Chloride ion content - % | EN 1015-17 | 0.01 | Class R4: ≤ 0.05 |
| Adhesive bond - MPa | EN 1542 | 2.4 | Class R4: ≥ 2.0 |
| Carbonation resistance - mm | EN 13295 | 0 | Class R4: $d_k \leq$ control concrete |
| Restrained shrinkage/expansion - MPa | EN 12617-4 | In water: 2.5 Dry: 3.1 | Class R4: ≥ 2.0 |
| Chloride ion ingress - m^2/s | ASTM C1556-04 | 2.1×10^{-13} | - |
| Coefficient of thermal expansion - $m/m/^\circ C$ | EN 1770 | 12.5×10^{-6} | - |
| Freeze-thaw resistance - kg/m^2 | SS 137244 | < 1 @ 112 cycles | - |
| Workability - mm | EN 13395-1 | After mixing: 120 30 min: stiff | For identification |
| Stiffening time - h:min | EN 13294 | Start: 4:00 End: 4:40 | For identification |
| Max. aggregate size - mm | EN 12192-1 | 0.5 | For identification |
| Density - kg/m^3 | EN 12190 | 2000-2100 | - |
| Cr ⁶⁺ - % | N/A | < 0.0002 | - |



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DoP-11275
Densit® Coat Q5

EN 1504-3
Notified Body 0764 (MPA H)

For uses in buildings and civil engineering works

Compressive strength: Class R4
Chloride ion content: ≤ 0.05 %
Adhesive Bond: ≥ 2.0 MPa
Restrained shrinkage/expansion: 2.5 MPa (in water)
 3.1 MPa (dry)
Carbonation resistance: Passed
Elastic modulus: 31 GPa