# Ready-mixed, fast-setting screed mortar

# nci Novoment® M3 pius

for fast track cement screeds





# Fields of application

- For indoor and outdoor use, also for direct use.
- For areas which are exposed to permanent wetness.
- For fast track bonded screeds and screeds installed on an isolating or insulating layer.
- Suitable for heated screeds.
- As repair mortar for concrete floors and cementitious screeds.
- For layer thickness from 20 to 80 mm.



Due to its properties, PCI Novoment M3 plus is also suitable to compensate the height of concrete steps.

# Features and benefits

- Can be tiled after approx. 3 days, walkable after approx. 1 day.
- Ready-to-mix mortar, no on-site mixing with sand required.
- Long processing time, can be worked with and smoothed for almost 1 hour despite of short curing time.
- Suitable for application by pump, even at higher temperatures.
- Temperature resistant from -30°C to +80°C, therefore suitable for balconies, terraces, garages, industrial floor coverings cleaned with superheated steam.

- Insensitive to moisture, therefore suitable for areas exposed to permanent wetness.
- Limited bending (suitability test to 6.2 DIN 18560-2), it is therefore possible to reduce layer thickness to 30 mm for screeds on insulation layer according to chart 1 (perpendicular load capacity ≤ 2 kN/m²) or chart 2 (perpendicular load capacity, area load ≤ 3 kN/m²), in case of heated screeds the pipes must be covered by a layer thickness of 30 mm.



#### Technical Data Sheet

PCI Novoment® M3 plus

# **Technical data**

#### Material

Maximum grade 6 mm Components single component Bulk density approx. 1.9 g/cm³ Consistency powder Colour grey Behaviour in fire A1 fl Strength to DIN EN 13892-2 Compressive strength after 28 days ≥ 30 N/mm² Bending tensile strength after 28 days ≥ 5 N/mm² Storage dry, no permanent storage over +30°°C Shelf life min. 9 months Packaging size 25 kg PE lined heavy duty paper bag stock no. 3888/9  Application Consumption approx. 20 kg/m² and cm layer thickness Ouantity of gauging water/mixing ratio approx. 2.1 litres of water + 25 kg of PCI Novoment M3 Plus Layer thickness - minimum approx. 30 mm for screeds on isolating or insulating layer approx. 80 mm in: 30 mm to cover pipes Processing temperature +6°°C to +25°°C Mixing tools forced action mixer Conveyance pneumatic Mixing tools Conveyance pneumatic Mixing tools Conveyance pneumatic Curing time* - walkable after approx. 60 minutes Curing time* - walkable after approx. 7 days (at max. 3.0 CM % residual moisture) The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance - 30°C to +80°C - Times are actived when the temperatures of mortar, arabient air and substrate are approx. 42°C over the entire period and the relative humidity does not exceed 50%.	Waterial	
Components single component Bulk density approx. 1,9 g/cm³ Consistency powder Colour grey Behaviour in fire A1 grey Behaviour in fire Behaviour in fire A1 grey Behaviour in fire	Material base	special cement with admixtures and aggregates
Bulk density approx. 1.9 g/cm³ Consistency powder Colour grey Behaviour in fire A1 ft Strength to DIN EN 13892-2 Compressive strength after 28 days ≥ 5 N/mm² Strength gensile strength after 28 days ≥ 5 N/mm² Storage dry, no permanent storage over +30°C Min. 9 months Packaging size 25 kg PE lined heavy duty paper bag stock no. 3888/9  Application Consumption approx. 20 kg/m² and cm layer thickness - minifrimum approx. 20 mm for bonded screeds; approx. 2.1 litres of water + 25 kg of PCI Novoment M3 Plus Layer thickness - minifrimum approx. 30 mm for screeds on isolating or insulating layer approx. 80 mm min. 30 mm to cover pipes Processing temperature +5°C to +25°C Mixing tools forced action mixer Conveyance pneumatic Mortar consistency stiff-crearmy Processing time* Curing time* - walkable after Can be covered with - eperantic tiles and flagstones after approx. 3 days approx. 7 days (at max. 3.0 CM % residual moisture) The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance  **New are achieved when the temperatures of morter, ambient air and substatel are approx. 42°C over the entire period and the relative humidity does not exceed 50%.  **Times are achieved when the temperature of morter, ambient air and substatel are approx. 1 cert entire period and the relative humidity does not exceed 50%.  **Times are achieved when the temperatures of morter, ambient air and substatel are approx. 1 cert entire period and the relative humidity does not exceed 50%.	Maximum grade	6 mm
Colour grey Behaviour in fire AT  Behaviour in fire AT  Strength to DIN EN 13892-2 Compressive strength after 28 days ≥ 30 N/mm² Bending tensile strength after 28 days ≥ 5 N/mm² Bending tensile strength after 28 days ≥ 5 N/mm² Storage dry, no permanent storage over +30°C Shelf life min. 9 months Packaging size 25 kg PE lined heavy duty paper bag stock no. 3888/9  Application Consumption approx. 20 kg/m² and cm layer thickness Quantity of gauging water/mixing ratio approx. 2.1 litres of water + 25 kg of PCI Novoment M3 Plus Layer thickness - minimum approx. 30 mm for bonded screeds; approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 40 mm  For cheated screeds  For cored action mixer  Conveyance  Demunatic  Mortar consistency  Frocessing time*  Couring time*  Validable after  Approx. 1 day  Approx. 20 mm for bonded screeds; approx. 20 mm for screed on the requirements for cement screeds in the manual issued by the CM meter producer!  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance  Forest resistance  Possessiance to permanent wetness  Fines are achieved when the temperatures of mortar, ambient air and substrate are approx. 72°C ore the entire period and the relative humidity does not exceed 60%.	Components	single component
Colour grey Behaviour in fire A1  Behaviour in fire A1  Strength to DIN EN 13892-2  Compressive strength after 28 days ≥ 30 N/mm²  Bending tensile strength after 28 days ≥ 5 N/mm²  Storage dry, no permanent storage over +30°C  Shelf life min. 9 months  Packaging size 25 kg PE lined heavy duty paper bag stock no. 3888/9  Application  Consumption approx. 20 kg/m² and cm layer thickness  Quantity of gauging water/mixing ratio approx. 2.1 litres of water + 25 kg of PCI Novoment M3 Plus Layer thickness  - minimum approx. 20 mm for bonded screeds; approx. 30 mm for screeds on isolating or insulating layer approx. 80 mm approx. 80 mm  min. 30 mm to cover pipes  - roceasing temperature +5°C to +25°C  Mixing tools forced action mixer  Conveyance pneumatic  Mortar consistency stiff-creamy  Processing time*  Curing time*  - walkable after approx. 3 days  - walkable after approx. 3 days  - wall-to-wall carpet, parquet approx. 7 days (at max. 3.0 CM, % residual moisture)  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance - 30°C to +80°C  Frost resistance   yes  - Frost resistance to permanent wetness   yes  - Times are actived when the temperatures of mortar, ambient air and substrate are approx. 42°C or the entire period and the relative humidity does not exceed 50%.	Bulk density	approx. 1.9 g/cm <sup>3</sup>
Behaviour in fire A1 all Strength to DIN EN 13892-2 Compressive strength after 28 days ≥ 5 N/mm² Bending tensile strength after 28 days ≥ 5 N/mm² Storage dry, no permanent storage over +30°C Shelf life min. 9 months Packaging size 25 kg PE lined heavy duty paper bag stock no. 3888/9  Application Consumption approx. 20 kg/m² and cm layer thickness Quantity of gauging water/mixing ratio approx. 2.1 litres of water + 25 kg of PCI Novoment M3 Plus Layer thickness - minimum approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for ocore pipes Processing temperature +5°C to +25°C Mixing tools forced action mixer Conveyance pneumatic Mortar consistency stiff-creamy Processing time* - walkable after approx. 1 day Can be covered with - ceramic tiles and flagstones after approx. 3 days - walkable after approx. 3 days - walkable after approx. 3 days - walkable after approx. 7 days (at max. 3.0 CM % residual moisture) The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance - 30°C to +80°C Frost resistance yes  **Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the reletive humidity does not exceed 50%.	Consistency	powder
Strength to DIN EN 13892-2  Compressive strength after 28 days  Bending tensile strength after 28 days  Storage  dry, no permanent storage over +30°C  min. 9 months  Packaging size  Application  Consumption  approx. 20 kg/m² and cm layer thickness  Quantity of gauging water/mixing ratio  approx. 2.1 litres of water + 25 kg of PCI Novoment M3 Plus  Layer thickness  - minimum  approx. 20 mm for bonded screeds;  approx. 30 mm for screeds on isolating or insulating layer  - maximum  - for heated screeds  Processing temperature  ### 15°C to +25°C  Mixing tools  Conveyance  Mixing tools  Conveyance  Mixing tools  Conveyance  ### 25 kg of PCI Novoment M3 Plus  ### 25 kg of PCI N	Colour	grey
Encling tensile strength after 28 days  ≥ 30 N/mm²  Storage  dry, no permanent storage over +30°C  min. 9 months  Packaging size  25 kg PE lined heavy duty paper bag stock no. 3888/9  Application  Consumption  approx. 20 kg/m² and cm layer thickness  Quantity of gauging water/mixing ratio  approx. 20 mm for bonded screeds; approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for cover pipes  Processing temperature  +5°C to +25°C  Mixing tools  Conveyance  Mortar consistency  Processing time*  approx. 80 minutes  Curing time*  - walkable after  Can be covered with  - walkable after  - wall-to-wall carpet, parquet  and vapour-tight coverings after  - wall-to-wall carpet, parquet  and vapour-tight coverings after  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance  - "sines are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Behaviour in fire	A1 fl
Bending tensile strength after 28 days       ≥ 5 M/mm²         Storage       dry, no permanent storage over +30°C         Shelf life       min. 9 months         Packaging size       25 kg PE lined heavy duty paper bag stock no. 3888/9         Application       Consumption         Consumption       approx. 20 kg/m² and cm layer thickness         Quantity of gauging water/mixing ratio       approx. 21 litres of water + 25 kg of PCI Novoment M3 Plus         Layer thickness       ****         - minimum       approx. 20 mm for bonded screeds; approx. 30 mm for screeds on isolating or insulating layer approx. 30 mm for screeds on isolating or insulating layer approx. 80 mm         - for heated screeds       min. 30 mm to cover pipes         Processing temperature       +5°C to +25°C         Mixing tools       forced action mixer         Conveyance       pneumatic         Mortar consistency       stiff-creamy         Processing time*       approx. 60 minutes         Curing time*       approx. 1 day         - walkable after       approx. 3 days         - walk-to-wall carpet, parquet       approx. 7 days (at max. 3.0 CM % residual moisture)         The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer! <t< td=""><td>Strength to DIN EN 13892-2</td><td></td></t<>	Strength to DIN EN 13892-2	
Storage dry, no permanent storage over +30°C Shelf life min. 9 months Packaging size 25 kg PE lined heavy duty paper bag stock no. 3888/9  Application  Consumption approx. 20 kg/m² and cm layer thickness Quantity of gauging water/mixing ratio approx. 2.1 litres of water + 25 kg of PCI Novoment M3 Plus Layer thickness - minimum approx. 20 mm for bonded screeds; approx. 30 mm for screeds on isolating or insulating layer approx. 80 mm min. 30 mm to cover pipes +5°C to +25°C Mixing tools forced action mixer Conveyance pneumatic Mortar consistency stiff-creamy Processing time* approx. 60 minutes  Curing time* approx. 1 day Can be covered with - caramic tiles and flagstones after approx. 3 days approx. 3 days approx. 7 days (at max. 3.0 CM % residual moisture) The CM measuring is to be carried out according to the requirements for coemats for ceeds in the manual issued by the CM meter producer!  Temperature resistance Frost resistance yes  **Innes are achieved when the temperatures of mortar, ambient air and substrate are approx. 423°C over the entire period and the relietive humidity does not exceed 50%.	Compressive strength after 28 days	≥ 30 N/mm²
Shelf life min. 9 months  Packaging size 25 kg PE lined heavy duty paper bag stock no. 3888/9  Application  Consumption approx. 20 kg/m² and cm layer thickness approx. 2.1 litres of water + 25 kg of PCI Novoment M3 Plus Layer thickness  - minimum approx. 20 mm for bonded screeds; approx. 30 mm for screeds on isolating or insulating layer approx. 80 mm for bonded screeds min. 30 mm to cover pipes  - maximum approx. 80 mm min. 30 mm to cover pipes  Processing temperature +5°C to +25°C  Mixing tools forced action mixer  Conveyance pneumatic  Mortar consistency stiff-creamy approx. 60 minutes  Curing time*  - walkable after approx. 1 day  Can be covered with  - ceramic tiles and flagstones after approx. 3 days and vapour-tight coverings after  - wall-to-wall carpet, parquet approx. 7 days (at max. 3.0 CM % residual moisture)  The CM measuring is to be carried out according to the requirements for coment screeds in the manual issued by the CM meter producer!  Frost resistance yes  Resistance to permanent wetness yes  * Times are activised when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Bending tensile strength after 28 days	≥ 5 N/mm²
Application  Consumption approx. 20 kg/m² and cm layer thickness  Quantity of gauging water/mixing ratio approx. 2.1 litres of water + 25 kg of PCI Novoment M3 Plus  Layer thickness  - minimum approx. 20 mm for bonded screeds; approx. 30 mm for screeds on isolating or insulating layer  - maximum approx. 80 mm approx. 80 mm  - for heated screeds min. 30 mm to cover pipes  Processing temperature +5°C to +25°C  Mixing tools forced action mixer  Conveyance pneumatic  Mortar consistency stiff-creamy  Processing time* approx. 60 minutes  Curing time*  - walkable after approx. 3 days  - wall-to-wall carpet, parquet approx. 7 days (at max. 3.0 CM % residual moisture)  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance yes  Resistance to permanent wetness yes  * times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Storage	dry, no permanent storage over +30°C
Application  Consumption approx. 20 kg/m² and cm layer thickness  Quantity of gauging water/mixing ratio approx. 2.1 litres of water + 25 kg of PCI Novoment M3 Plus  Layer thickness  - minimum approx. 20 mm for bonded screeds; approx. 30 mm for screeds on isolating or insulating layer  - maximum approx. 80 mm  - for heated screeds min. 30 mm to cover pipes  Processing temperature +5°C to +25°C  Mixing tools forced action mixer  Conveyance pneumatic  Mortar consistency stiff-creamy  Processing time* approx. 60 minutes  Curing time*  - walkable after approx. 1 day  Can be covered with  - ceramic tiles and flagstones after approx. 3 days  - wall-to-wall carpet, parquet approx. 7 days (at max. 3.0 CM % residual moisture)  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance  Prost resistance  Resistance to permanent wetness  yes  ***Imms are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Shelf life	min. 9 months
Consumption approx. 20 kg/m² and cm layer thickness  Quantity of gauging water/mixing ratio approx. 2.1 litres of water + 25 kg of PCI Novoment M3 Plus  Layer thickness - minimum approx. 20 mm for bonded screeds; approx. 30 mm for screeds on isolating or insulating layer - maximum approx. 80 mm - for heated screeds Processing temperature +5°C to +25°C Mixing tools forced action mixer  Conveyance pneumatic Mortar consistency stiff-creamy Processing time* - walkable after valkable after - carmic tiles and flagstones after - wall-to-wall carpet, parquet and vapour-tight coverings after The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance  Resistance Resistance to permanent wetness  **Imps are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Packaging size	
Augustity of gauging water/mixing ratio  Layer thickness - minimum  approx. 20 mm for bonded screeds; approx. 30 mm for screeds on isolating or insulating layer - maximum - for heated screeds  Processing temperature  +5°C to +25°C  Mixing tools  forced action mixer  Conveyance  Mortar consistency  Processing time*  curing time* - walkable after  Can be covered with - ceramic tiles and flagstones after - wall-to-wall carpet, parquet and vapour-tight coverings after  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance  Resistance to permanent wetness  *Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Application	
Layer thickness - minimum	Consumption	approx. 20 kg/m <sup>2</sup> and cm layer thickness
- minimum approx. 20 mm for bonded screeds; approx. 30 mm for screeds on isolating or insulating layer approx. 80 mm for heated screeds min. 30 mm to cover pipes  Processing temperature +5°C to +25°C  Mixing tools forced action mixer  Conveyance pneumatic  Mortar consistency stiff-creamy  Processing time* approx. 60 minutes  Curing time* approx. 1 day  Can be covered with approx. 3 days  - wall-to-wall carpet, parquet approx. 7 days (at max. 3.0 CM % residual moisture) and vapour-tight coverings after approx. 7 days (at max. 3.0 CM % residual moisture) and vapour-tight coverings after approx. 7 days (at max. 3.0 CM % residual moisture) and vapour-tight coverings after approx. 7 days (at max. 3.0 CM % residual moisture) and vapour-tight coverings after approx. 7 days (at max. 3.0 CM % residual moisture) approx. 7 days (at max. 3.0 CM % res	Quantity of gauging water/mixing ratio	approx. 2.1 litres of water + 25 kg of PCI Novoment M3 Plus
approx. 30 mm for screeds on isolating or insulating layer approx. 80 mm for heated screeds min. 30 mm to cover pipes  Processing temperature #5°C to +25°C Mixing tools forced action mixer  Conveyance pneumatic Mortar consistency stiff-creamy  Processing time* approx. 60 minutes  Curing time* - walkable after can be covered with - ceramic tiles and flagstones after - wall-to-wall carpet, parquet and vapour-tight coverings after The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance  Prost resistance Resistance to permanent wetness  *Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Layer thickness	
- maximum - for heated screeds  Processing temperature  +5°C to +25°C  Mixing tools  Conveyance  pneumatic  Mortar consistency  Processing time*  - walkable after  - walkable after  - ceramic tiles and flagstones after  - wall-to-wall carpet, parquet  and vapour-tight coverings after  Temperature resistance  Prost resistance  Resistance to permanent wetness  *Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	- minimum	approx. 20 mm for bonded screeds;
ror heated screeds min. 30 mm to cover pipes  Processing temperature +5°C to +25°C  Mixing tools forced action mixer  Conveyance pneumatic  Mortar consistency stiff-creamy  Processing time* approx. 60 minutes  Curing time* - walkable after approx. 1 day  Can be covered with - ceramic tiles and flagstones after approx. 3 days - wall-to-wall carpet, parquet approx. 7 days (at max. 3.0 CM % residual moisture)  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance yes  Resistance to permanent wetness yes  *Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.		approx. 30 mm for screeds on isolating or insulating layer
Processing temperature +5°C to +25°C  Mixing tools forced action mixer  Conveyance pneumatic  Mortar consistency stiff-creamy  Processing time* approx. 60 minutes  Curing time* approx. 1 day  Can be covered with approx. 3 days  - wall-to-wall carpet, parquet approx. 7 days (at max. 3.0 CM % residual moisture)  and vapour-tight coverings after approx. 7 days (at max. 3.0 CM % residual moisture)  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance yes  Resistance to permanent wetness yes  *Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	- maximum	approx. 80 mm
Mixing tools forced action mixer  Conveyance pneumatic  Mortar consistency stiff-creamy  Processing time* approx. 60 minutes  Curing time* approx. 1 day  Can be covered with approx. 3 days - ceramic tiles and flagstones after approx. 7 days (at max. 3.0 CM % residual moisture)  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance yes  Resistance to permanent wetness yes  *Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	- for heated screeds	min. 30 mm to cover pipes
Conveyance pneumatic  Mortar consistency stiff-creamy  Processing time* approx. 60 minutes  Curing time* approx. 1 day  Can be covered with - ceramic tiles and flagstones after approx. 3 days - wall-to-wall carpet, parquet approx. 7 days (at max. 3.0 CM % residual moisture)  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance yes  Resistance to permanent wetness yes  * Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humicity does not exceed 50%.	Processing temperature	+5°C to +25°C
Mortar consistency Processing time* curing time* - walkable after - walkable after can be covered with - ceramic tiles and flagstones after - wall-to-wall carpet, parquet and vapour-tight coverings after The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance Frost resistance  Resistance to permanent wetness  * Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Mixing tools	forced action mixer
Processing time*  Curing time* - walkable after - walkable after  can be covered with - ceramic tiles and flagstones after - wall-to-wall carpet, parquet and vapour-tight coverings after  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance  -30°C to +80°C  Frost resistance to permanent wetness  * Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Conveyance	pneumatic
Curing time* - walkable after can be covered with - ceramic tiles and flagstones after - wall-to-wall carpet, parquet and vapour-tight coverings after  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance -30°C to +80°C Frost resistance to permanent wetness  * Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Mortar consistency	stiff-creamy
- walkable after Can be covered with - ceramic tiles and flagstones after - wall-to-wall carpet, parquet and vapour-tight coverings after The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance -30°C to +80°C  Frost resistance to permanent wetness  * Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Processing time*	approx. 60 minutes
Can be covered with  - ceramic tiles and flagstones after  - wall-to-wall carpet, parquet and vapour-tight coverings after  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance  -30°C to +80°C  Frost resistance to permanent wetness  * Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Curing time*	
- ceramic tiles and flagstones after - wall-to-wall carpet, parquet and vapour-tight coverings after  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance  -30°C to +80°C  Frost resistance  yes  Resistance to permanent wetness  * Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	- walkable after	approx. 1 day
approx. 7 days (at max. 3.0 CM % residual moisture) The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance -30°C to +80°C  Frost resistance yes  Resistance to permanent wetness  * Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Can be covered with	
and vapour-tight coverings after  The CM measuring is to be carried out according to the requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance  -30°C to +80°C  Frost resistance  yes  Resistance to permanent wetness  * Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	- ceramic tiles and flagstones after	approx. 3 days
requirements for cement screeds in the manual issued by the CM meter producer!  Temperature resistance -30°C to +80°C  Frost resistance yes  Resistance to permanent wetness yes  * Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	- wall-to-wall carpet, parquet	
Frost resistance yes  Resistance to permanent wetness yes  * Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	and vapour-tight coverings after	requirements for cement screeds in the manual issued by
Resistance to permanent wetness yes  * Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Temperature resistance	-30°C to +80°C
* Times are achieved when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.	Frost resistance	yes
	Resistance to permanent wetness	yes
	* Times are achieved when the temperatures of mortar, ambient air and substrate are ac See also "General information on the application of rapid setting cement screeds".	prox. +23°C over the entire period and the relative humidity does not exceed 50%.

# Preparation of substrate for bonded screeds to DIN 18560

■ The substrate must be clean, structurally sound, free from grease, old paint and other residues. Remove heavy contamination mechanically, residues of oil and wax with PCI Entöler oil remover. Remove smoothed surfaces with a cement slurry on top by e.g. shotblasting (Blastrac). Prewet the prepared substrate at an early stage, keep damp, apply PCI Repahaft bonding agent and PCI Novoment M3 Plus screed mortar wet on wet.

#### Technical Data Sheet

PCI Novoment® M3 plus

# **Application procedure**

The recommendations DIN 18560 and DIN 18353 are to be followed during the application of PCI Novoment M3 Plus.

#### 1 Mixing

1.1 Mix larger quantities in a forced action mixer! Fill PCI Novoment M3 Plus in a forced action mixer and mix with water for approx. 1 minute while mixer is running until a stiff-creamy

consistency is produced. The amount of water required per 25 kg bag of PCI Novoment M3 Plus is about 2.1 litres.

2 Single bags of PCI Novoment M3
Plus can also be mixed in a suitable
bucket (e.g. hobbock) with a basket
stirrer attached to an electric drill. Fill
adequate amount of gauging water in
the bucket, add PCI Novoment M3

Plus and mix to a stiff-creamy consistency.

#### 2 Application

Spread mortar using a shovel, finishing trowel or surface scraper, compact, scrape off with a browning rod, rub down with a wooden board and smooth if necessary. Protect newly applied screed from rapid drying.

# General information on the production of fast setting cement screeds

The mix must be of a stiff-creamy consistency! The screed does not achieve the appropriate strength if the consistency is too soft and/or contains too much water. This might result in shrinkage cracks and bulges. The equilibrium moisture will not be reached until later. The strength and low residual moisture level important for laying

subsequent coverings are dependent on the following factors:

- 1. Compaction of fresh mortar Insufficient compaction of green screed mortars results in low strength.
- 2. Temperature and humidity
  Curing and drying times may
  considerably increase at low application
  and substrate temperatures or high

humidity (compared with the times at +20°C). The relative humidity should not exceed 70% during the curing process. In principle, the residual moisture should be checked before laying vapour-tight floor coverings.

#### 3. Layer thickness

The required screed thickness must be in accordance with DIN 18560.

# Information on the application as heated screed

Application details to DIN 18560-2 and DIN EN 1264-4.

#### Preheating phase:

A PCI Novoment M3 Plus screed can be heated after 3 days. Initial preheating takes place at a temperature of +25°C to be maintained for 3 days. The maximum flow temperature is set and maintained for another 4 days. Then the heating system is switched off. Ensure adequate air supply and ventilation during the heating and cooling phase. Avoid draught! Do not allow the room temperature to drop below +15°C and the temperature of the screed surface to fall below +18°C. The heating contractor must draw up a report on the initial heating operation and subsequent commissioning. The report must be handed over to those concerned and

must contain the following information:

- 1. Data on the pre-heating operation with respective flow temperatures.
- 2. Maximum flow temperature attained.
- 3. Operating condition and outside temperature at the time of handing over.
- 4. Date of commissioning.

A screed heated up this way can be covered with a wide variety of top coverings.

### Please note

- Do not apply PCI Novoment M3 Plus screeds at substrate temperatures below +5°C and above +25°C.
- The general guidelines for cement screeds must be observed. The fastcuring properties of PCI Novoment M3 Plus must be taken into consideration.
- Use only whole bags of PCI Novoment M3 Plus.
- PCI Novoment M3 Plus must not be mixed with cement, fast-setting bonding agents, ready-mixed screeds, dry mortars, as well as

- fibres, admixtures or additives and/or blended with aggregate mixes.
- Apply PCI Novoment M3 Plus within approx. 60 minutes (at approx. +23°C) after mixing. Higher temperatures reduce, lower temperatures increase the time given.
- Never add water or fresh PCI Novoment M3 Plus to reconstitute a mortar mix which has already begun to set.
- Uncovered screeds prepared for further covering absorb moisture at unfavourable climatic conditions

- (e.g. high humidity). The residual moisture in the screed can be reduced by taking appropriate measures (e.g. air dehumidification).
- We recommend to cover the installation with construction foil until walkable for the application outdoors where early exposure to rain is expected or in strong wind.
- Clean tools and mixing buckets with water immediately after use, the cured product can no longer be cleaned with water.

#### Technical Data Sheet

PCI Novoment® M3 plus

### **Declaration of Performance**

The Declaration of Performance can be downloaded as pdf file under www.pci-augsburg.eu/dop.

## Information on the safe use

PCI Novoment M3 Plus contains cement:

Causes serious eye damage. Causes skin irritation.

Keep out of reach of children. Wear protective gloves (e.g. cotton gloves soaked in nitrile) and eye/face protection. IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. IF ON SKIN: Wash with plenty of soap and water and put skin cream on (pH value approx. 5.5). IF SKIN IRRITATION OCCURS: Get medical advice/attention.

The product is non-flammable. No special fire precautions are therefore required.

Giscode ZP 1

For further information: see PCI Material Safety Data Sheet

# Services for architects and designers

Consultations at the workplace, supplementary information, testing certificates and sample descriptions can be requested from professional advisors and at the company headquarters.

# Disposal of emptied PCI sales packaging

PCI participates in an area-wide waste disposal system for sales packaging completely emptied. DSD – Duales System Deutschland (Dual System Germany, contract number 1357509) is our partner for waste disposal. PCI sales packaging completely emptied can be disposed of via DSD in accordance with the symbol printed on the packaging.



PCI Augsburg GmbH Piccardstr. 11 86159 Augsburg P.O.B. 10 22 47 86012 Augsburg Germany

Tel. +49 (821) 59 01-0 Fax +49 (821) 59 01-372 www.pci-augsburg.de



In view of widely varying site conditions and fields of application of our products this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with PCI and possible resulting damages are in the sole responsibility of the customer. All descriptions,

drawings, photographies, data, ratios, weights a.o. stated herein can be changed without advance notice and do not represent the condition of the product as stipulated by contract. It is the sole responsibility of the recipient of our products to observe possible proprietary rights as well as existing laws and provisions. The reference of trade names of other companies is no recommendation and does not exclude the use of products of similar type. Our information only describe the quality of our products and services and are no warranty. Liability is accepted for incomplete or incorrect particulars in our data sheets only in the event of intent or gross negligence, without prejudice to claims under product liability laws. All transactions are subject to our Terms of Sale and Supply.

Technical Data Sheet No. 235 (February 2018), Any subsequent publication supersedes this edition.

German edition January 2017; the latest edition is always available on the Internet under www.pci-augsburg.de