

# TP-H-House Compound 5941

## Binder for simple production of high performance concrete

Binder data with sand with a w/c ratio of 0.5 in accordance with DIN EN 196

TP-H-House Compound 5941*			grey	white
Water demand		[%]	27	27
Initial setting time		[min]	> 150	> 150
Compressive strength	2d	[MPa]	12	7
Compressive strength	28d	[MPa]	35	25

Examples of mix design			grey	white
TP-H-House Compound 5941		[kg/m³]	1,050	1,050
Pit sand 0/2 mm (air-dry)		[kg/m³]	1,150	1,150
PCE-superplasticizer		[kg/m³]	18	18
Water		[kg/m³]	165	165
Prism compressive strength**	2d	[MPa]	75	70
Prism compressive strength**	28d	[MPa]	120	110
3-point flexural bending strength**	28d	[MPa]	16	15

\*\* Prism 4 cm x 4 cm x 16 cm  
Test specimen stored for 28 days under water at 20 °C

### Important notice:

Prolonged exposure of the concrete surface to moisture combined with deficient ventilation may lead to a permanent blue discoloration caused by the blast furnace slag present in TP-H-House Compound 5941. To counteract this tendency, for these conditions a suitable air permeable hydrophobization of optically sophisticated elements should be applied as early as possible. Afterwards, the elements have to be stored for at least 1 week under dry conditions.

TP-H-House Compound 5941 grey and white are high-performance binders based on cement main constituents in accordance with DIN EN 197-1 and quartz powders in accordance with DIN ISO 3262-13. Conformity of the technical specifications of the product supplied with the values given in this data sheet is ensured by factory production control carried out at the Neuwied plant (Germany) in compliance with DIN EN 197 Part 2 and on the basis of DIN EN ISO 9001.

Based on the operating and process instructions specified by the quality management system of this plant, continuous production monitoring is performed on the raw materials as well as the intermediate and final products. This facilitates ongoing verification of the conformity of the product properties with the corresponding requirements.

This bulletin contains general information only. It cannot consider chemical and/or physical influences of substances unknown to us having any contact with our products at mixing or in any other way at work on the construction site. Hence the information is perhaps not suitable for the actual application. In this case individual tests considering the actual on-site conditions are necessary. The information in this bulletin cannot be seen as a quality guarantee.

[www.h-house-project.eu](http://www.h-house-project.eu)

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