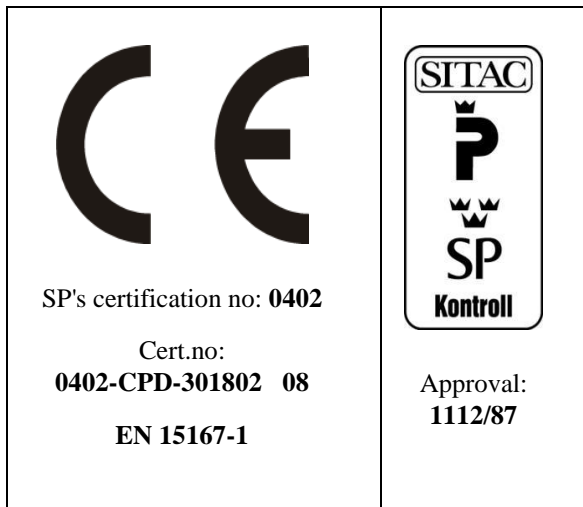


Merit 5000

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Application field

Mineral additive type II in concrete. Part of selflevelling compound increasing bearing capacity in soils.

Origin & manufacturing

Merit 5000 is produced from blast furnace slag from SSAB Oxelösund, rapidly cooled with water. The material is thereafter dried before being grounded at the mill in Grängesberg.

Concrete properties

Concrete with Merit 5000 may result in a slower generation of heat and compressive strength development compared to standard concrete. This should be taken into consideration, especially in low temperatures so that the curing is fully satisfied before tearing possible mould. The final compressive strength of concrete with Merit 5000 is equivalent or higher to that of standard concrete.

Handling advice

Merit 5000 should be handled in the same way as standard cement. For further information contact the producer.

Health- and environmental effect

See the material safety data sheet.

Quality assurance

The chemical composition of the slag is continuously analysed and the slag accepted for granulation is sorted out. The specific surface of the material is analyzed during the grinding process. Physical and chemical properties of Merit 5000 are checked in an extensive program continuously. Merit 5000 is a qualified product by the Swedish Institute for Technical Approval in Construction (SITAC) and controlled by the Swedish National Testing and Research Institute (SP). Merox AB is certified according to ISO 9001:2000 and ISO 14001:1996.

Chemical Content [weight-%]

Compound	Mean	Max	Min
CaO	31	38	29
SiO ₂	34	40	30
MgO	17	18	10
Al ₂ O ₃	13	15	10
TiO ₂	2,4		
Mn ₂ O ₃	0,8		
FeO	0,4		
S ²⁻	1,3	1,6	
SO ₃	0,25	1,0	
ekv Na ₂ O	0,9	1,4	

Physical Properties

Property	Mean	Max	Min
Specific surface [Blaine cm ² /g]	5000	5400	4600
Specific Weight [kg/m ³]	2920	2980	2850
Glass content [%]	99		92



MEROX

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