

Technical Data Sheet

SC - WearStop® C40/M40

Pasty mortar or castable compound of chemically bound ceramics on the basis of bauxite

Economical in cases of

- abrasive wear
- frequent temperature fluctuations
- service temperature up to 400°C

Physical Properties:

Bulk density	2,8	g/cm ³
Hardness to Mohs	~ 7 ÷ 8	-
Maximum particle size	4	mm
Compressive strength		
- after 1 day	130	MPa
- after 7 days	185	MPa
- after 28 days	225	MPa
Flexural strength		
- after 1 day	18	MPa
- after 7 days	28	MPa
- after 28 days	30	MPa
Coefficient of expansion	1,0 x 10 ⁻⁵	1/K
Thermal conductivity	1,5	W/mK
Maximum operating temperature	400	°C
Shrinkage during drying process	< 0,1	%

Chemical Composition:

CaO	20	wt. %
Al ₂ O ₃ + TiO ₂	50	wt. %
SiO ₂	25	wt. %
Others	5	wt. %

Additives:

Steel fibres	4,5	wt. %
Water	5,5 ÷ 6	wt. %

Wear Resistance:

DIN 52 108 Böhme disc (1)	4	cm ³ /50 cm ²
ASTM C-704 - 94 (2)	4,7	cm ³

However, blast angle under 30°

All values were determined on test bodies and are mean values from standard test methods and therefore do not constitute guaranteed properties for construction items of all kinds, linings etc. in the sense of assured product values; in cases of doubt, pilot trials and/or item tests are recommendable. 1) neutrally determined by the State Material Test Authority of the University of Kaiserslautern. 2) neutrally determined by the publicly appointed and sworn expert, Engineering Office O. Thelen, Melsbach



Technical Data Sheet

SC - WearStop® C60/M60

Pasty mortar or castable compound of chemically bound ceramics on the basis of Corundum

Economical in cases of

- abrasive wear
- frequent temperature fluctuations
- service temperature up to 400°C

Physical Properties:

Bulk density	2,9	g/cm ³
Hardness to Mohs	~ 8	-
Maximum particle size	3	mm
Compressive strength		
- after 1 day	150	MPa
- after 7 days	170	MPa
- after 28 days	190	MPa
Flexural strength		
- after 1 day	15	MPa
- after 7 days	20	MPa
- after 28 days	25	MPa
Coefficient of expansion	1,0 x 10 ⁻⁵	1/K
Thermal conductivity	1,5	W/mK
Maximum operating temperature	400	°C
Shrinkage during drying process	< 0,1	%

Chemical Composition:

CaO	17	wt. %
Al ₂ O ₃ + TiO ₂	70	wt. %
SiO ₂	11	wt. %
Others	2	wt. %

Additives:

Steel fibres	4,5	wt. %
Water	4,5 ÷ 5,5	wt. %

Wear Resistance:

DIN 52 108 Böhme disc ⁽¹⁾	1,5	cm ³ /50 cm ²
ASTM C-704 - 94 ⁽²⁾	3,9	cm ³

However, blast angle under 30°

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