ALSIBLOCK®-H/-HD/-D/-S

Bonding agents

ALSIBLOCK®-H is a powdery reaction bonding agent for up to 900 °C. It is mixed with water (see processing instructions).

ALSIBLOCK®-HD -D and -S are ready-to-use high temperature bonding agent for refractory insulating materials and refractory bricks up to 1650 °C.

Technical data					
Type		**-H**	**-HD**	**-D**	**-S**
Classification temperature	°C	900	1450	1600	1650
Colour		beige	white	grey	black
Consistency		powder	pasty	pasty	pasty
Chemical analysis					
Al_2O_3	%	3.5	35	43	43
SiO_2	%	85	60	50	50
Fe_2O_3	%	0.2	1	< 1	1.2
Alkaline	%	4.5	3	3	3
Phosphate	%	6	–	–	–
Processing temperatures		between + 5 °C and + 40 °C			
Setting after application	h	1	1	1	1
Hardening	h	8	8	8	8
Full hardening	h	48	24	24	24
Storage	months	12	6	6, frost free	6

Delivery sizes					
Type		**-H**	**-HD**	**-D**	**-S**
Unit	kg	20	15	25	25/50

Application areas

ALSIBLOCK®-H is especially suitable for bonding lightweight construction systems ALSIBLOCK®, ALSIPACK® and ALSIFORM® to steel sheet/expanded metal or fibre to fibre.

ALSIBLOCK®-D is especially suitable for bonding light-weight construction systems made of high temperature wool ALSIBLOCK®, ALSIPACK® and ALSIFORM® to refractory building materials, e. g. lightweight refractory bricks, refractory concrete and fireclay.

ALSIBLOCK®-HD -D and -S bonding agents are suitable for bonding lightweight refractory bricks to each other.

Processing

The substrate must be air-dry, free of dust and grease. There may be no other products which may impair adhesion. The consistency depends on the temperature of the bonding agents. The best processing temperature is between + 10 °C and + 20 °C. The temperature during processing and hardening needs to be above + 5 °C. The joints should not be larger than 1–2mm. The needed amount of bonding agent depends on the type and surface of the material to be bonded. The amount for lightweight refractory bricks is between 200 and 250 kg/1000 stones. The bonding agents have to be well mixed before usage. The tools should be cleaned with water right after usage. Open units should be sealed tightly.

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