BCI BUILDING CHEMISTRY INDUSTRY

Bc Tec PSG

Two Component Self-Leveling Polysulphide Sealant

Description:-

BC tec PSG is a cross linking polysulphide based elastic sealant for horizontal expansion joints. Suitable for use in hot and tropical climatic conditions.

USES:

It is used in horizontal joints in many types of buildings and civil engineering constructions such as:

Expansion joints in floors
PQC joints, Precast concrete elements
Bridge deck joints
Reservoirs
Vacuum dewatered floor joints/groove sealing, crack repairing
Horizontal trafficable joints, airport runways, car park, roads and culverts
Wherever a permanently flexible horizontal seal is re- quired

CHARACTERISTICS / ADVANTAGES:

Easy to use
Economical
Excellent adhesion with many materials
Good chemical resistance
Permanently elastic
Good weather resistance

SUSTAINABILITY:

VOC content <35 g/L (less water) US EPA 24

Standards Compliance:

Conforms to: BS 4254 - 1983
Conforms to BS/EN ISO 11600 : 2003
Complies with ASTM C920, Type M, Grade P, Class 25

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ISO 9001 QSCert | OHSAS 18001 QSCert | ISO 14001 QSCert

PRODUCT INFORMATION:

Composition Cross linking polysulphide

Packaging	4 Kgs	(Comp. A + Comp. B)
	18 Kgs	Comp. A + Comp. B)

Colour:

Paste, grey

Shelf life:

BC tec PSG has a shelf life of 12 months from the date of pro duction if it is stored in undamaged, original, sealed packaging, and if the storage conditions are met. Storage conditions BC tec PSG shall be stored in dry conditions, where it is protec ted from direct sunlight and at temperatures between +5 °C and +30 °C

Density	~1.60 kg/l	
Solid content 100 %		
Shore A Hardness	~20	(ASTM C 661)
Movement Capability	+/-25 %	(ASTM C 719)
Service Temperature	-20 °C min. / +80 °C max.	

Joint Design Joint configuration

Minimum Joint width: 6 mm Maximum Joint width: 50 mm

Width: Depth Ratio

The joint width must be designed to suit the movement capability of the sealant. Joints expected to movement a width to depth ratio of approxim- ately 2 : 1 must be maintained. For butt joint the width to depth ratio should be 1 : 1.

Minimum joint depth is recommended:

6mm for non-porous surfaces
8mm for porous surfaces
20mm for trafficked joints and joints that are exposed to hydrostatic pres- sure

At chamfered elements it shall not fill the chamfer with sealant.

Mixing Ratio Part A : Part B = 95 : 5 (by weight)

Ambient Air Temperature +5 °C min. / +50 °C max.

Substrate Temperature +5 °C min. / +50 °C max.

Substrate Moisture Content Dry joint with sound concrete edges. For joints under wet conditions, use

Pot Life ~2 h at 25 °C

Curing Time 1 week

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APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:

All surfaces must be clean, dry and free from any loosely adhering particles. Check the joints edges for soundness and if found weak cut recess and fill up with suitable repair mortar (Consult Sika Technical Department). Correct joint depth can be established by inserting closed cell poly- ethylene backing rod tightly into the joint. When the joints have been filled with fiber filled board, this must be raked back to the required depth. Use bond break- er tape over the backer material. Protect surfaces with masking tape.

PRIMING:

BC tec PSG should be used as a primer only on two sides of the joint. The flash off time is minim- um 30 minutes and maximum 3 hours.

MIXING:

Add Component B into the bigger Component A pail. Mix the product thoroughly with a mixing paddle fit- ted to an electric hand drill (4 L packing) and hand held paint or grout electric mixer (18 L packing) not exceed- ing 500 rpm to avoid entrapping air. Mix for approximately 5 minutes until a smooth, even consistency is achieved.

APPLICATION METHOD / TOOLS:

Where required, protect the surface with masking tape. The properly mixed material can be poured directly into joint. Remove masking tape.

CLEANING OF EQUIPMENT:

Clean all tools and application equipment with Cleaner immediately after use. Hardened / cured material can only be mechanically removed.

Pourable grade BC Tec PSG is used only in case of horizontal joints. Sealant joint movement should not exceed +/-25 % of the joint width when in- stalled in a width to depth ratio of 2 : 1.

BC Tec PSG is chemical resistant (occasional spillages) to diluted acids, diluted alkalis, aviation fuel, kerosene, lubrication oils, skydrol and white spirit.

BC Tec PSG is not chemical resistance to chlorinated solvents, aromatic solvent and diluted oxidizing acids. BC Tec PSG must be fully cured before permanent immersion in water. Paint compatibility with sealant should be checked prior to painting.

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