Product Data Sheet Edition 26/07/2011 Identification no: 01 07 03 04 910 0 000001 Sika® Tricosal® Metal Waterbar

Sika[®] Tricosal[®] Metal Waterbar

Coated metal joint sealing waterbar

Product Description	Sika [®] Tricosal [®] Metal Waterbar is a galvanised sheet with a layer of composite film on one side. The special coating bonds closely and permanently to the concrete.			
Uses	Sika [®] Tricosal [®] Metal Waterbar is designed to act as a physical barrier to the passage of water through construction joints. Sika [®] Tricosal [®] Metal Waterbar is mainly used for the following applications:			
	Sealing vertical and horizontal construction joints in Watertight Concrete			
Characteristics / Advantages	Sika [®] Tricosal [®] Metal Waterbar			
	Proven up to 5 bar (50 mWS) hydrostatic water pressure			
	Simple, and quick installation			
	Performance unaffected by weather-conditions			
	No welding required			
Tests				
Approval / Standards	MPA NRW: P-22-MPANRW-4477/2u – General building inspection test certificate – (27.01.09)			
	WISSBAU PB-2002-091-(6) Functional test (24.05.2005)			
	WISSBAU PB-2002-091-(6-1) Functional test (24.05.2005)			



Product Data					
Form					
Appearance / Colour	Grey with white coating				
Packaging	Profile Description	Height:	<u>Sheet</u> <u>Thickness</u>	Length:	Packaging Unit
	Sika [®] Tricosal [®] Metal Waterbar	120 mm	0.6 mm	15 m	1 roll + accessories
Storage					
Storage Conditions / Shelf Life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between $+5^{\circ}$ and $+25^{\circ}$. Protect from direct sunlight and frost.				
Technical Data					
Material	Steel sheet DX 51 D+. with polymer coating	Z, hot-dip ga	lvanized		
Density	Approx. 7 g/cm ³ (steel)				
System Information					
Application Details					
Consumption / Dosage	General				
	Sika [®] Tricosal [®] Metal Waterbar is available in 15 m sets. The Sika [®] Tricosal [®] metal waterstop is coated with a white layer of FCCF on one side, which is protected by a blue protective film with a join in the middle. The protective film is to be removed prior to concreting. The visible white coating is a clear optical identifying feature to ensure correct placement.				
	Installation is not	limited by ar	nbient tempera	ature.	
	 A wavy installati Waterbar (minimu 	on will not um distance	affect the fun to reinforceme	ction of the nt min. 30mn	Sika [®] Tricosal Metal n)

Application					
Application Instructions	Installation slab/wall				
	Sika [®] Tricosal [®] Metal Waterbar is fixed by brackets to the reinforcement. The coated side of the waterstop is installed to the water facing direction.				
	Corners are formed by bending.				
	The lower half of the plastic strip is removed prior to the fixing of the metal waterstop. (Alternatively this can also be done after fixing).				
	Sika [®] Tricosal [®] Metal Waterbar is placed centrally in the construction joint – the coated side facing in the direction of the water pressure i.e. basement use, the metal waterbar would be placed with the coated strip facing the external side of the basement. The minimum distance to reinforcing bars shall be 30 mm.				
	Sika [®] Tricosal [®] Metal Waterbar is fixed to the reinforcement with the Fixing clamp and tying wire at 500 mm spacing's. In corner areas, the distance of the clamps shall be maximum 200 mm to the corner.				
	The clamp is installed with the shorter end on the coated side.				
	The joints are to be overlapped by 100 mm. The protection film removed, the ends tightly compressed and safeguarded with a Fixing clamp or a Jointing clip.				
	Slab concreting				
	Check prior to concreting whether the metal waterstop is connected continuously, fixed firmly and the lower protection film is removed. (Check colour: lower half white, upper half blue).				
	The fixing clamps have to be cut with bolt cutters. The shorter leg of the clamp is thus removed. This serves for easier removal of the upper stripe of the protection film, which allows the full function of the reactive coating on the metal waterstop.				
	Approximately one half of the metal waterstop shall be tied into the base slab, (minimum of 30 mm).				
	If the metal waterstop is displaced during concrete placement, it shall immediately be pressed or moved back to the correct position.				
	Wall Concreting				
	The fixing clamps have to be cut with bolt cutters. The shorter leg of the clamp is thus removed. This serves for easier removal of the upper stripe of the protection film, which allows the full function of the reactive coating on the metal waterstop.				
	Avoid contact with the poker during concrete vibration.				

Application Method / Tools	The standard rules of good concreting practice, concerning production and placing, are to be followed.		
	Fresh concrete must be cured properly and curing applied as early as possible.		
Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.		
Notes on Application / Limitations	Sika [®] Tricosal [®] Metal Waterbar is designed as a waterstop for use in construction joints. This product should be used in conjunction with watertight concrete		
	Do not use Sika [®] Tricosal [®] Metal Waterbar for movement joints!		
	Do not use Sika [®] Tricosal [®] Metal Waterbar for sealing against water pressures greater than 5 bar.		
	Support from our Technical Service Department is recommended		
Value Base	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.		
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.		
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.		
Legal Notes	The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.		



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