

# SBR Polymer Admixture

Technical Data Sheet			Technical Data (typical)				
DESCRIPTION				Light grou			
<b>Sika Latex</b> is a one component water based general purpose styrene butadene rubber emulsion. When diluted with water it produces a gauging solution for improving cementitious mixes.			ted colour:	Light grey			
			ecific gravity:	1.1 kg/litre			
			plication operature:	In accordance with render/screed/concrete			
USES				standards. 5°C (guide only) (Substrate and ambient)			
Sika Latex is added to water then mixed with cement and sand/aggregate to produce:				TIES	,		
*	Bond coat/slurry.	<b>28 days @ 20°C</b> RH 65%					
*	Pourable micro concrete.	1:3 cement : sand mortar mix					
*	Renders.			Unmodified	Sika Latex		
*	Screeds with enhanced mechanical properties.			control	modified		
					solution		
ADVANTAGES		Compressive strengths:					
*	Reduced shrinkage and cracking.	1 d	ay	25 N/mm <sup>2</sup>	30 N/mm <sup>2</sup>		
*	Reduced permeability.	28	days	50 N/mm <sup>2</sup> 57 N/mm <sup>2</sup>	66 N/mm <sup>2</sup>		
*	Improved workability.	Bo	nd strengths.				
*	Improved mechanical properties	(tei	nsile)				
*	Improved resistance to freeze/thaw	28 Wit	days h bond coat:	1.0 N/mm <sup>2</sup> bondline/	>2.0 N/mm <sup>2</sup> bondline/		
*	Just add water	(fai	lure mode)	substrate	substrate		
*	Water based	Воі	nd strength can be im	proved by usin	g <b>SikaDur® 32</b> or		
*	Solvent free	SikaTop <sup>®</sup> Armatec 110 EpoCem <sup>®</sup> as a bond coat resulting					
~ ~	Non toxic	In a failure mode within the substrate (depending on preparation).					
	Chloride free	Notes:					
т Т	Non flammable	*	<ul> <li>Final mechanical properties and strength gain will b dependent on temperature, aggregate/sand type</li> </ul>				
т ~			moisture content and	curing regime.			
~	Compatible with all cement types.	<ul> <li>More accurate information regarding workability, mechanical strengths and strength gains should be obtained from site trials and appropriate strength/bond tests.</li> </ul>					
		★ Bond strength will be dep substrate, preparation tec			dependent on condition of techniques and application.		
			<ul> <li>Where increased open times and bond strength are required for bond coat/slurry use SikaTop Armatec 110 EpoCem or SikaDur 32.</li> </ul>				
			Details available on request.				

All above values are approximate.

# **CONCRETE SUBSTRATE PREPARATION**

Concrete substrates must be suitably prepared using mechanical or abrasive blast cleaning techniques such as scabbling, needle gunning, grit blasting and to provide a clean, sound surface free of laitance, surface contaminants such as oil and grease and loosely adhering particles.

#### MIXING

Sika Latex should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

Mix Sika Latex with water to produce a gauging solution in the correct ratio for 90 seconds. Add gauging solution to cement/aggregate mix until desired consistency is achieved.

#### APPLICATION

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated leaving no standing water. Always apply mix "wet on wet" onto bonding bridge/coat. Re-apply if surface dries.

#### Bond coat:

Work mix vigorously with a stiff brush onto pre-dampened substrate.

#### Screed, render, mortar:

Apply mix to wet bond coat. If bond coat dries, reapply.

Standard Mix Design and Consumption Guide

## IMPORTANT CONSIDERATIONS

#### CURING

Correct curing procedures should be carried out immediately after application to ensure full cement hydration and to minimise cracking. Use polythene sheeting or other approved methods in accordance with render/screed standards.

- \* Sika Latex must be diluted with water and mixed with cement for all applications
- \* Do not add water over recommended dosage.
- \* Apply only to prepared, sound substrates.
- \* Due allowance must be made for the moisture content of the sand to ensure the correct quantity of Sika Latex is used as given in the standard mixes. In some circumstances this will result in the addition of undiluted Sika Latex to the mix.
- When sand is mixed wet the quantity of water added \* must in all cases be reduced to compensate.
- Protect freshly applied material from freezing. \*
- \* Do not add additional admixtures without prior consultation with Sika Limited.

# CLEANING

Remove Sika Latex from tools and equipment with water.

## PACKAGING

Refer to latest price list.

## STORAGE AND SHELF LIFE

Minimum 1 year in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).

Use	Mix Design Ref	Gauging Solution Sika Latex:water litres	Dry Mix cement:sand:Agg kg	Thickness layer range mm	Approx 28 day strength N/mm <sup>2</sup>	Approx Yield litres (m³)	Notes			
Bond coat for: floor screeds, rendering	1	1:3	1:1:0	-	-	-				
Normal duty floor screed	2	7 : Upto 12	50 : 125 : 0	12 - 25	Upto 55	90 (0.09)	Use bond coat. Add on extra 25 kg sand for thickness above 12.0 mm.			
Heavy duty floor screed	3	6 : Upto 12	50 : 75 : 75 grave/agg 3-6 mm	15 - 25	Upto 60	100 (0.10)	Apply semi dry. Use bond coat.			
Render	4	9 : Upto 9	50:125:0	12 - 20	Upto 55	90 (0.09)	Use bond coat			
Pourable micro concrete	5	7:13:0.4*	50 : 75 : 120 gravel/agg 5-10 mm	75	Upto 50	110 (0.11)	Flow trials recommended			
Sand to BS 882 1992 Grade M Aggregates are calculated as dry Cement type: Ordinary portland cement * For micro concrete use Sikament N in gauging solution										

#### Handling Precautions

Transming recautions Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of protective clothing. Adoptate working period either by washing area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

#### Important Note

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 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 property 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

#### Please consult our Technical Sales Department for further information

SIKA LIMITED

Watchmead, Welwyn Garden City, Hertfordshire, AL7 1BQ Tel: 01707 394444 Email: sika@uk.sika.com Fax: 01707 329129 www.sika.com





