PRODUCT SELECTOR, CALCULATION TOOLS

Adhesives / sealants APPLICATIONS	Sikaflex®-290 DC PRO	Sikaflex®-291i	Sikaflex®-292i	Sikaflex®-295 UV	Sikaflex®-296	Sikaflex®-298	Sikasil® WS-605 S	Sika Firesil® Marine N	Sikasil® N-Plus	SikaTransfloor®-352 ST and SL
General sealing overpaintable	-	•••	••	-	-	-	-	-	-	-
General sealing, weathering resistant	-	-	-	•••	••	-	•••	-	-	-
Fire retardent sealing	-	-	-	-	-	-	-	•••	-	-
Organic glass bonding	-	-	-	•••	•	-	-	-	-	-
Mineral glass bonding	-	-	-	-	•••	-	-	-	-	-
Deck levelling	-	-	-	-	-	-	-	-	-	•••
Wodden deck bonding	-	••	-	-	-	•••	-	-	-	-
Caulking	•••	-	-	-	-	-	-	-	-	-
Bonding of coverings	-	• •	-	-	-	•••	-	-	-	-
Sanitary sealing	-	•	-	-	-	-	-	-	•••	-

SERVICE CONDITIONS										
High temperature > -40 °C to 150 °C	-	-	-	-	-	-	-	•••	••	-
Normal temperature -40 °C to 90 °C	-	•••	•••	•••	•••	•••	•••	-	-	•••

See also Pre-Treatment Chart for Marine Applications

KEY TO SYMBOLS

•••	Best solution
••	Good solution
•	Possible solution

ADHESIVE PRIMER CONSUMPTION

DESIGN OF ADHESIVE LAYER GEOMETRY

The elastic adhesive can only fully develop its positive properties (movement compensation, peeling and impact resistance) if the adhesive layer geometry is correct.

Above all, this means keeping to a minimum layer thickness that must be individually suited to the bond. A layer thickness of 2-3 mm has proved best for most applications. Thicker layers may be required where considerable movement is expected.

Depths over 20 mm should be avoided with standard Sikaflex[®] grades because the adhesive would take too long to harden.



		NO. 01 300 M	F METRE	S PER RIDGE	NO. 01 10	F METRE 0 ML TUI	S PER BE
joi Wii	NT ОТН	5	10	15	5	10	15
۶	1	62.00	31.00	20.60	20.00	10.00	6.60
W) O	2	31.00	15.50	10.30	10.00	5.00	3.30
BON	3	20.60	10.30	6.88	6.60	3.30	2.20
S 0F	4	15.50	7.75	5.15	5.00	2.50	1.60
NES	5	12.40	6.20	4.10	4.00	2.00	1.30
YOIH.	6	10.30	5.16	3.44	3.30	1.60	1.10
/ER T	7	8.85	4.40	2.95	2.80	1.40	0.90
/LA/	8	7.75	3.90	2.60	2.50	1.20	0.80
РТН	9	6.90	3.50	2.30	2.20	1.10	0.70
DE	10	6.20	3.10	2.00	2.00	1.00	0.60

PRIMER AND CLEANER CONSUMPTION

PRODUCT	YIELD PER 100 ML AT 20 MM WIDTH (m)	BRUSH APPLI- CATION TISSUE APPLICATION* (1/m ²)
Sika® Aktivator / Sika® Aktivator-205	25-30	0.04*
Sika® Primer-206 G+P	17-22	0.1-0.15
Sika® Primer-209 D	12-15	0.15-0.2
Sika® MultiPrimer Marine	12-15	0.15-0.2

Make sure that:

- The primed areas coincide with the bonding areas
- The right primer for the material surface is used
- The primer is completely dry and cured before bonding i.e. watch the evaporation time
- Primers are shaken if necessary

CONVERSIONS AND CALCULATIONS

FORMULAE

TO ESTIMATE THE NUMBER OF LITRES REQUIRED

Normal bead application;

Quantity in litres = bead width (mm) x bead thickness (mm) x joint length (metres) 1000

(Dimensions are for wet adhesive in rectangular cross section)

Large area bonding and laminating;

Quantity in litres = width (metres) x length (metres) x wet film adhesive thickness (mm).

TO DETERMINE THE VOLUME OF A SEMI-CIRCULAR BEAD

Quantity in litres = 3.142 x diameter (mm) x diameter (mm) x length (metres) 8000

TO DETERMINE THE VOLUME OF A TRIANGULAR BEAD

Quantity in litres = width (mm) x height (mm) x length (metres) 2000

TO CONVERT KILOGRAMS TO LITRES

Quantity in litres = weight in kilograms density (grams / ml or kg / l)

TO CONVERT BETWEEN TEMPERATURE SCALES

Fahrenheit = (degrees celsius (°C) x 5) - 32

9

Celsius = $\frac{\text{(degrees fahrenheit (°F) x 9)}}{5}$ + 32

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TEMPERATURE SCALES						
°C	(°F			
100			212			
80			176			
60			140			
40			104			
35			95			
30			86			
25			77			
20			68			
15			59			
10			50			
5			41			
0			32			

WEIGHT	
1 ounce =	28.3495 g
1 pound =	0.45359 kg
1 hundredweight =	50.8023 kg

AREA	
1 inch ² =	645.16 mm ²
1 foot ² =	0.0929 m ²
1 yard ² =	0.8361 m ²
1 acre =	4046.86 m ²
1 mile ² =	2.59 km ²

VOLUME	
1 pint (UK) =	0.5683
1 pint (USA) =	0.4732
1 gallon (UK) =	4.5461
1 gallon (USA) =	3.7854

LENGTH	
1 inch =	25.4 mm
1 foot =	0.3048 m
1 yard =	0.9144 m
1 furlong =	201.17 m
1 mile =	1.6093 km

PRESSURE	
1 bar =	0.1 MPa
1 Pascal =	1 N / m ²
1 kgf / cm² =	0.09807 MPa
1 psi =	6894.76 Pa

SI PREFIXES						
NAME	SYMBOL	FACTOR				
giga	G	109				
mega	М	106				
kilo	k	103				
hecto	h	102				
deca	da	101				
deci	d	10-1				
centi	С	10-2				
milli	m	10-3				
micro	μ	10-6				
nano	n	10-9				