

GENERAL PRINCIPLES FOR APPLYING SEALANTS



Primer

The primer is for some sealants or surfaces the basic condition for proper, permanent adhesion.

Backfill Material

To ensure a permanent elasticity of the sealant, a backfill material (round cord) must be used.

Permeability

Depending on the system, sealants have a low or somewhat increased water vapor permeability.

The vapor diffusion is, for example, approx.

20 g/m³/24 hrs.,

for acrylates

approx. 10 g/m³/24 hrs.



Material of window profiles	b_{Ac} for sealants with a permissible total deformation of 25%				b_{Stc} for sealants with a permissible total deformation of 25%		
	b_{Si} for sealants with a permissible total deformation of $\geq 15\%$				b_{Si} for sealants with a permissible total deformation of $\geq 15\%$		
	Element length in mm						
	up to 1.5	up to 2.5	up to 3.5	up to 4.5	up to 2.5	up to 3.5	up to 4.5
	Minimum joint width for dull stop b_S in mm				Minimum joint width for inside stop b_A in mm		
PVC hard (white)	10	15	20	25	10	10	15
PVC hard and PMMA (dark) (color-extruded)	15	20	25	30	10	15	20
Hard PUR integral foam	10	10	15	20	10	10	15
Aluminum-plastic composite profiles	10	10	15	20	10	10	15
Aluminum-plastic composite profiles, dark	10	15	20	25	10	10	15
Wooden window profiles	10	10	10	10	10	10	10
b_{Si}	Minimum joint width for dull stops, room side						
b_{Stc}	Minimum joint width for dull stops, on outside						
b_{Ac}	Minimum joint width for inner stops, on outside						

Gap dimensioning

A common rule of thumb is:

Sealant joint depth = 0.5 x joint width

