

UR 3543 A-E + UR 3543 BTF-E

Type of Product Two- Component Polyurethane adhesive.

Product Characteristics

- long open time
- excellent resistance to acidic and basic solutions
- good tensile and elongation properties
- excellent adhesion to wet and dry reverse osmosis membranes

Typical Applications Adhesive for Osmosis filter bonding and potting.

Suitable substrates Reverse osmosis and ultra-filtration membranes.

Typical Properties

Property	Value		
	Component A UR 3543 A-E	Component B UR 3543 BTF-E	Mixture
Colour	white	yellowish	yellowish
Solids content	100%	100%	100%
Isocyanate content	-	approx. 14,5 %NCO	-
Density	approx. 0.92 g/cm ³	approx. 1.04 g/cm ³	approx. 1,00 g/cm ³
Viscosity	approx. 19 500 mPa.s	approx. 20 000 mPa.s	approx. 18 000 mPa.s
Shelf life	12 months	6 months	-

Application Instructions

Two- component polyurethanes cure only in combination with a suitable hardener. Before processing the hardener must be added in the right mixing ratio and stirred homogeneously. After addition of the hardener the mixture can be used for a certain time. This time changes by environment-, and adhesion temperature and by the total quantity of the mixture as well.

Mixing ratio (A:B): 100 : 115 (g/g)

Pot life: approx. 45 minutes

Minimum curing time: approx. 24 hours

Processing temperature: between +15°C and +25°C

A negligible change of mixing ratio only affects the mechanical properties but not processing time or minimum curing time.

The reaction of two-component polyurethane adhesives strongly depends on temperature. Therefore, the temperature of working process should not fall below +15°C because the curing process can be disturbed, and the properties of the adhesive joint could change. Curing can be accelerated by heat.

However, recommend not to increase temperature above +60°C.

Pre-treatment of bonding surfaces:

Surfaces must be clean, dry and free of grease and oil.

Polyolefin materials must be corona pre-treated or flame treated.

Other plastics like ABS, PS, PVC, PC etc. as well as most metals should be pre-treated with suitable primers.

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Application Instructions**Processing:**

Before processing the adhesive must be stirred well and carefully mixed with the hardener. It must be applied thinly to one bonding surface. It must be applied as much adhesive until the joint between the bonding surfaces is completely filled.

Applicator: Two- component mixing machines, tooth trowel, Pfohl roller.

Because of no initial strength, the bonding until curing must be fixed or pressed until the adhesive is cured.

The adhesive must not be diluted.

Cleaning Instructions

Tools can be cleaned by the cleaning agents ISA-Verdünner 1 or ISA-Verdünner 12.

To clean the supply pipes and mixing head of two-component equipment, ISA-Reiniger 204 can be used.

If cleaners from other suppliers are used, tests with these cleaners must be done.

Typical Packaging

Please contact your local Sales Office for available packaging options.

Storage Conditions

In original sealed packaging protected from sun, dust, moisture and high temperatures.

UR 3543 A-E: not sensitive to frost.

UR 3543 BTF-E: damaged below +5°C. Store this product in closed container between +5°C and +35°C. Not reusable after warming.

Disposal Advice

Please refer to the MSDS for disposal instructions.

Safety Advice

Please refer to the MSDS for safety advice.

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