

OptiMixer

THE EVOLUTION OF MIXING



Middle Stone Age (70,000 years ago)

Hand Mix

Stone Age humans create new tools by attaching stones to sticks. They mix plant gum and red ochre to create glue. [1]



1 to 500 AD

Hand Mix

Late 1990s

Disposable Square Mixer

the Turbo Mixer™. Shorter

than spiral mixers, the Turbo

provides greater control while

Nordson EFD introduces

reducing fluid waste.

Romans mix tar and beeswax to make caulk and seal wooden planks in ships. [2]



500 AD to 1950s

Hand Mix

The Industrial Revolution brings forth the new synthetic adhesives. [3] However, two-component mixing remains manual.



1965

Mixing Device

U.S. patent for the first mixing device filed Nov. 29, 1965 in Cambridge, Massachusetts. [4]



Late 1970s

Disposable Spiral Mixer

Nordson EFD introduces the Spiral Mixer.[™] Its mixing elements are 180° helical twists that deliver thorough mixing.



2016

Innovative Square Mixer

Nordson EFD introduces OptiMixer.[™] It optimizes mix performance in a significantly shorter length with less fluid waste.

STATISTICS & BENEFITS

Shortest Two-Component Mixer of its Kind in the Marketplace

SHORTER

MIDNERS

REVAINED

VOLUME

MIX QUALITY

IMPROVES ADHESIVE STRENGTH

CLOSER PROXIMITY **TO APPLICATION**

BETTER CONTROL + HIGHER QUALITY

INDUSTRIES & APPLICATIONS

Key Applications Involve These Two-Component Fluids:













CONSTRUCTION

Foundation crack repair **Bonding steel studs into**

concrete

Joint sealing

Bonding glass to glass

Caulking

Chemical anchoring

Bonding countertops



TRANSPORTATION

Panel bonding

Plastic repair of cracks & tears

Seam sealers

Undercoating Windshield gasketing

Sound dampening



MAINTENANCE, REPAIR, **OVERHAUL**

Wind turbine blade repair

Dent repair

Gasketing Insulation

Window glazing

Wood repair

THE NEXT STEP

Try OptiMixer in your next two-component dispensing application.

REQUEST FREE SAMPLES

nordsonefd.com/OptiMixerSamples

- https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2700998/
- ^[1] http://www.jstor.org/stable/10.1086/649836
- 121 https://books.google.com/books/about/Handbook_of_Adhesives_and_Surface_Prepar.html?id=MEtmMXLBsFEC&printsec=frontcover&source=kp_read_button#v=onepage&q&f=false Handbook of Adhesives and Surface Preparation: Technology, Applications and Manufacturing By Sina Ebnesajjad (p. 137) 18] https://books.google.com/books/about/Handbook_of_Adhesives_and_Surface_Prepar.html?id=MEtmMXLBsFEC&printsec=frontcover&source=kp_read_button#v=onepage&q&f=false
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