

FDM Raman Retail Adhesives & Sealants (347 Spectra)

The spectral range is 200 cm⁻¹ to 3407 cm⁻¹ and the optical resolution is about 4.3 cm⁻¹ at 1000 cm⁻¹. These spectra were run on a benchtop dispersive system with a 780 nm laser with an output of 300 mW and up to 150 mW at the sample, a fixed grating triple pass monochromator, autoexposure and white light intensity correction. ASTM compliant system tests for resolution and x-axis calibration were performed daily.

The samples are the same as those used in the FDM ATR Retail Adhesives & Sealants.

These spectra are of adhesives and sealants available in wide variety of retail stores in Madison, Wisconsin, USA in late 2012 and early 2013. The samples cover general use, construction, automotive, and arts and craft products. Considerable effort was made to obtain samples covering all imaginable retail A&S products. Samples include various acrylates, epoxies, urethanes, silicones and much more.

Samples from the chemical name index:

3M Auto Plastic Emblem and Trim Adhesive

3M Carpenters Wood Glue, Indoor

3M Ceramic Adhesive, Outdoor, cured

3M Ceramic Adhesive, Outdoor, hardener

3M Ceramic Adhesive, Outdoor, resin

3M Concrete Adhesive, Outdoor, cured

3M Concrete Adhesive, Outdoor, hardener

3M Concrete Adhesive, Outdoor, resin

3M Scotch Photo Mount(tm)

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ELMERS(r) Carpenters(r) WoodGlueMax(r) Interior, Exterior

ELMERS(r) China plus Glass Cement

ELMERS(r) Contact Cement

ELMERS(r) Craft Bond(tm) Extra Strength Glue Stick

ELMERS(r) Craft Bond(tm) Paper Craft Glue Gel

ELMERS(r) ELMERS(r) Stix-ALL(r) Gel Cement

ELMERS(r) Glue-All(r) Max

ELMERS(r) Household Cement

ELMERS(r) Model plus Hobby Cement

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GE Waterproof Silicone, Silicone I*, Kitchen, Bath, Plumbing, clear

Goo Gone(r) Pro Power(tm), PNGG12DO

Gorilla Glue

Harveys Epoxy Putty, Single Stick, PN044150

Harveys, Harveyseal Formula 55, Pipe Thread Compound for Lines Carrying Gas, PN025020

Harveys, Plumber's Epoxy Putty, PN044010, inside brown hardener

Harveys, Plumber's Epoxy Putty, PN044010, outside grey resin

Harveys, TFE Paste, white, slow setting, PN023030

HDX(tm) Latex Plus Silicone Caulk, white

Hi-Bond MEK-P Hardener, PN701750

Imperial(r) Furnace Cement, black