

**SECTION 07 92 00
JOINT SEALANTS**

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PART 1 - GENERAL

3.01 RELATED DOCUMENTS

CONTRACTOR IS REFERRED TO THE INSTRUCTIONS TO BIDDERS AND GENERAL CONDITIONS, NYCHA CONTRACTS; THE SPECIAL NOTICE TO CONTRACTORS; THE FORM OF PROPOSAL; THE FORM OF BID BOND; DIVISION 01 - GENERAL REQUIREMENTS OF THE CONTRACT SPECIFICATIONS; THE CONTRACT DRAWINGS AND ALL AMENDMENTS AND ADDENDA THERETO; ALL OF WHICH GOVERN THE WORK OF THIS SECTION.

SECTION INCLUDES

EXTERIOR SEALANT: PROVIDE A CONTINUOUS BEAD OF SEALANT; MATCHING COLOR OF EXISTING SEALANT; TO PREVENT WATER INFILTRATION THROUGH JOINTS AT ALL VERTICAL AND HORIZONTAL JOINTS IN THE BUILDING FACADE.

REFERENCE STANDARDS

ASTM C919 - STANDARD PRACTICE FOR USE OF SEALANTS IN ACOUSTICAL APPLICATIONS; 2024.

ASTM C920 - STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS; 2018.

ASTM C1193 - STANDARD GUIDE FOR USE OF JOINT SEALANTS; 2025.

UNDERWRITERS LABORATORY (UL).

ROOFING SYSTEMS AND MATERIALS GUIDE (TGFU R1306).

SUBMITTALS

MANUFACTURER'S PRODUCT SHEETS INCLUDING ASTM NUMBERS FOR NONSTRUCTURAL AND EXTERIOR TYPE SEALANTS.

COLOR SAMPLES, ALL CAULKS, AND SEALANTS.

REGULATORY REQUIREMENTS

ALL WORK SHALL BE PERFORMED IN A SAFE, PROFESSIONAL MANNER, CONFORMING TO ALL FEDERAL, STATE, AND LOCAL CODES, NEW YORK CITY BUILDING CODE.

NOTIFICATION - THE CONTRACTOR SHALL GIVE A MINIMUM OF TWO (2) DAYS' NOTICE TO THE AUTHORITY'S REPRESENTATIVE PRIOR TO COMMENCING ANY WORK AND SHALL NOTIFY OF ANY CHANGE IN THE WORK SCHEDULE.

REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ALL REMOVED MATERIALS AND DEBRIS.

DEFECTIVE WORK

THE CONTRACTOR SHALL MAKE PERMANENT CORRECTIVE REPAIRS, AS RECOMMENDED BY THE AUTHORITY'S REPRESENTATIVE AND MANUFACTURER, WITHIN 48 HOURS OF NOTIFICATION. IF INCLEMENT WEATHER DOES NOT PERMIT PERMANENT CORRECTIVE REPAIRS, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS, AS APPROVED, WITHIN THE AFOREMENTIONED TIME FRAME.

PART 2 - PRODUCTS

22.01 GENERAL

WHERE MATERIALS OF THIS SECTION ARE USED FOR THE INSTALLATION OF OR COME IN CONTACT WITH OTHER COMPONENTS OR SYSTEMS; THEN THE MATERIALS OF THIS SECTION AND THEIR INSTALLATION MUST CONFORM AND NOT VOID THE MANUFACTURER'S GUARANTEES FOR THE OTHER MATERIALS OR SYSTEMS.

ALL MATERIALS SHALL BE ASBESTOS-FREE.

ALL MATERIALS, COMPONENTS AND THEIR INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE NEW YORK CITY BUILDING CODES.

2.02 SEALANTS

SEALANTS

- A. General
 - 1. In using specified sealants, strictly observe the printed instructions of sealant manufacturer regarding joint size, limitations, backer rod, mixing, cleaning, surface preparation, priming and application. A primer shall be used, unless printed instructions advise to the contrary.
 - 2. Sealant shall not be applied when substrates are wet or when the temperature is below 40 deg. F.
 - 3. Care shall be exercised to insure against "Three Surface Adhesion". Bond breakers shall be provided where necessary.
 - 4. Contractor shall provide certification from sealant manufacturer that the manufacturer has reviewed all sealant details and finds them suitable for the purpose intended, compatible with and will not stain the surfaces with which they are in contact. Statement shall be accompanied by actual test results on production substrates performed in accordance with applicable ASTM procedures.
- B. Sealants (non-structural)
 - 1. Sealant shall be one-component polyurethane sealant and shall meet all the requirements of Federal Specification No. TT-S-00230C, Type II, Class A. It shall be one of the following or Equal. Color shall match the adjoining elements:
 - a. Dymonic Tremco 3735 Green Road, Beachwood, OH 44122.
 - b. Sonolastic NP-1 BASF Corporation Building Systems, 889 Valley Park Drive Shakopee, MN 55379.
 - c. Sikaflex No. 1-A Sika Chemical Corp. P O Box 297, Lyndhurst, NJ 07071.
- C. Backer rod shall be closed cell polyethylene form such as Sonolastic closed-cell Backer rod by BASF or Equal. Diameter of backer rod before compression shall be 1 ½ times the width of the joint at the time of installation.
- D. Pre-formed Sealant: Bitumen impregnated flexible polyurethane foam pre-compressed to 20% of its uncompressed length such as Progress Unlimited's Compriband. or Equal.
- E. Joint sealant for vertical and horizontal joints in concrete applications shall be silicone polymer sealant "SCS9000 SilPruf NB", Momentive Performance Materials USA Inc., 260 Hudson River Road, Waterford, NY 12188, Tel: 1-877-943-7325, or Equal.

PART 3 EXECUTION

28.01 EXAMINATION

VERIFY SUBSTRATE CONDITIONS ARE ACCEPTABLE FOR INSTALLATION IN ACCORDANCE WITH THIS SPECIFICATION, MANUFACTURER'S INSTRUCTIONS.

3.02 INSTALLATION

PREPARATION

- A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealers to comply with recommendations of joint sealer manufacturers and the following requirements:
 - 1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealer.
 - 2. Clean porous joint substrate surfaces to produce a clean, sound substrate. Remove loose particles remaining from cleaning.
 - 3. Remove laitance and form release agents from concrete.
 - 4. Clean non-porous surfaces with cleaners that are not harmful to substrates or leave residues that may affect joint sealers.
- B. Joint Priming: Prime joint substrates to comply with joint sealer manufacturer's recommendations. Confine primers to areas of joint sealer bond; not on adjoining surfaces.

- C. Masking Tape: Mask adjoining surfaces which might be permanently stained or damaged by sealant or by cleaning required to remove sealant. Remove tape immediately after tooling, without disturbing joint.

INSTALLATION

- A. General: Comply with joint sealer manufacturers' printed installation instructions, except where more stringent requirements apply.
- B. Provide a continuous bead of sealant when installed at locations as indicated on Drawings, including double-layer installations. Comply with ASTM C919 and all manufacturers' recommendations for location of beads.
- C. Elastomeric Sealant Installation Standard: Comply with ASTM C 962 for use of joint sealant, as applicable to conditions indicated.
- D. Installation of Sealant Backings: Install sealant backings to produce the shapes and depths of sealant for optimum performance.
 - 1. Do not leave gaps between ends of joint fillers.
 - 2. Do not stretch, twist, puncture, or tear joint fillers.
 - 3. Do not use absorbent joint fillers that are wet.
 - 4. Install bond breaker tape, where required, to prevent third-side adhesion of sealant to back of joint.
- E. Install compressible seals serving as sealant backings to comply with requirements indicated above for joint fillers.
- F. Installation of Sealant: Install sealant by proven techniques that result in sealant directly contacting joint substrates, completely filling joints, and providing uniform, cross-sectional shapes, and depths for optimum sealant movement. Mask adjacent surfaces, if necessary.
- G. Tooling of non-sag Sealant: Tool sealant to form smooth, uniform beads to eliminate air pockets and ensure adhesion of sealant with sides of joint. Remove excess sealant from adjacent surfaces. Provide concave joint configuration per Figure 6A in ASTM C 962.

3.03 CLEANING

REMOVE ALL STAINS AND SPOTS CAUSED BY THE WORK OF THIS CONTRACT.

BROOM CLEAN ALL WORK AREAS AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, SALVAGE, AND REINSTALLATION OF ANY STRUCTURE AND/OR FIXTURES ON THE BUILDING FACADE, INCLUDING AIR CONDITIONING GATES AT NO COST TO THE AUTHORITY.

CLEAN OFF EXCESS SEALANT OR SEALANT SMEARS, AS WORK PROGRESSES, BY METHODS AND MATERIALS APPROVED BY MANUFACTURERS OF JOINT SEALERS. REMOVE MASKING TAPE WHEN NO LONGER REQUIRED.

PROTECTION

PROTECT ALL EXISTING CONSTRUCTION AGAINST DAMAGE AND STAINING.

ALL PROPERTY OF THE AUTHORITY AND/OR TENANTS DAMAGED AS A RESULT OF THE WORK OF THIS CONTRACT SHALL BE RESTORED OR REPAIRED BY THE CONTRACTOR AT NO COST TO THE AUTHORITY.

PROVIDE DUMPSTER FOR DISPOSAL OF DAILY DEBRIS AND CART AWAY THE DUMPSTER FROM THE PROJECT REGULARLY TO DISPOSE OF THE COLLECTED DEBRIS. AT THE END OF EACH DAY'S WORK, REMOVE ALL DEBRIS AND ALL MATERIALS NOT USED DURING THE DAY FROM ALL PUBLIC AREAS TO A DESIGNATED STORAGE AREA. DO NOT LEAVE USED OR UNUSED MATERIALS OR EQUIPMENT IN THE PUBLIC AREAS AFTER THE WORKERS LEAVE.

PROTECT JOINT SEALERS FROM CONTAMINATION OR DAMAGE, SO THAT THEY ARE WITHOUT DETERIORATION OR DAMAGE AT TIME OF SUBSTANTIAL COMPLETION.

REMOVE DAMAGED OR DEFECTIVE JOINT SEALERS AND RESEAL JOINTS TO MATCH THE ORIGINAL WORK.

END OF SECTION 07 92 00