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Method Statement

ASO®-Tape

Thermoplastic joint tape for waterproofing joints

Scope

This method statement covers thermoplastic joint tape for waterproofing joints.

Part 1 - General

This section covers materials, labour, tools and equipment for installation and application of Thermoplastic joint tape for waterproofing joints.

1.1 Standards

1.2 Submittal

- A. Submit two copies of Technical Data Sheet containing all the instructions for use and installation (TDS) and Material Safety Data Sheet (MSDS).
- B. Submit a list of SCHOMBURG GmbH & Co. KG or your local SCHOMBURG/AQUAFIN approved applicators (Please ask for an applicator list).

1.3 Quality Assurance

- A. Manufacturer Qualifications

 The manufacturer shall certify that the specified product is valid and suitable for use and application as mentioned in the TDS.
- A. Applicator Qualifications
 Applicator shall be qualified in the field of
 concrete protection and repair with successful
 records. Applicator shall maintain qualified and
 certified personnel with good repute.
- B. Application and use of this product shall be in accordance with all instructions and precautions stated in the Technical Data Sheet. The MSDS and local regulations should be followed during handling, storage, applications and waste disposal.

1.4 Delivery, Storage and Handling

- A. All materials shall be delivered in unopened and original containers and fully identified with brand, type, grade, class, batch numbers and all other qualifying information.
- B. All the delivered materials shall be stored in its original packaging and elevated from the ground on pallets or shelves (avoid direct contact with the floor) according to the valid TDS.
- C. All the necessary precaution shall be taken to keep the product clean, dry and free from damage. Shelf life is 12 months when stored according to the above conditions and cool conditions abov +5 °C.

1.5 Job Conditions

A. Environmental conditions: the material shall not be applied during rain and protect from strong drafts. The application temperature must remain lower than +40 °C, for lower temperature curing time extends & for higher temperature curing time reduces. During application at higher temperatures protect material from direct sunlight.

Part 2 - Product

2.1 Manufacturer

ASO-Tape as manufactured by SCHOMBURG GmbH & Co. KG conforms to all requirements of this method statement.

2.2 Materials

A. "Highly flexible thermoplastic joint tape"

2.3 Performance Criteria

ASO-Tape has the following properties:

Basis: TPE (Thermoplastic Elastomer)

Colour: grey

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Shore a hardness

to ISO 868: approx. 87

Temperature

resistance: -30 °C/+90 °C

Application, substrate

and material

temperature: +5 °C to +35 °C

Material thickness	1.0 mm	2.0 mm
Weight per unit area, g/m²	approx. 900	approx. 1800
Tensile strength at break, to DIN EN ISO 527-3, N/mm²	арргох. 14.0	approx. 14.0
Elongation at break, to DIN EN ISO 527-3, %	арргох. 1000	approx. 1000
Tear propogation strength, to DIN 12310-2, N:	арргох. 100	арргох. 200

Consumption ASODUR-K4031:

	Consumption in kg/m	
Size/Thickness	1.0 mm	2.0 mm
150 mm	арргох. 0.8	approx. 1.4
200 mm	арргох. 1.0	approx. 1.5
250 mm	approx. 1.1	approx. 1.7
300 mm	арргох. 1.3	approx. 1.8
500 mm	арргох. 1.8	approx. 2.4

Does not consider extra material consumption for uneven substrates.

Combined test with ASODUR-K4031:

Tensile adhesion

strength, to PG- $\ddot{U}BB$: $> 3.0 \text{ N/mm}^2 \text{ with break in}$

concrete

Water impermeability, positive and negative

according to DIN 1048: 5 bar Crack bridging to PG-ÜBB,1.0 mm

crack held for 28 d water

pressure 0.75 bar: passed

Reaction to fire: Class E to DIN EN 13501-1

Packaging: 20 m rolls

Sizes: 150, 200, 250, 300, 500

1000 mm

Storage: Dry and protected from

weathering, 12 months in the original unopened packaging. Use within 2 months once

opened.

Part 3 - Execution

3.1 General

ASO-Tape is used in combination with ASODUR-K4031 for waterproofing construction joints and movement joints as well as for waterproofing cracks and voids in concrete construction. It is additionally suitable for waterproofing transitions or differing building materials.

3.2 Surface preparation:

The substrate must be clean and load-bearing as well as free from adhesion inhibiting materials. At the time of installation it may be matt damp but not wet or with saturated pores. In the area to be waterproofed, mechanically prepare the substrate using suitable means e.g. planing, scabbling or grit blasting etc., in order to ensure a good bond. When using on substrates other than concrete, assess with a trial adhesion test. When applying joint waterproofing as strips it is essential that the concrete has waterproof qualities. Otherwise the joint waterproofing must be used in combination with a surface-applied waterproof membrane

3.3 Application:

Coat the prepared substrate on both sides of the joint to be bridged with ASODUR-K4031 to a

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width min. 1 cm wider than the ASO-Tape being used. Then lay the joint tape and thoroughly bed into the adhesive layer with a trowel or pressure roller without voids or folds and coat over the top. In so doing, ensure that the joint tape is completely bedded. The adhesive or smoothing coat thickness should never be less than 1 mm. Overlap butt joints by a min. of 5 to 10 cm and bond or alternatively hot air weld.

3.3.1 Movement joints:

Movement joints always require a 2 mm joint tape and can either be laid flush or in a loop dependent on the project. To accomodate movement, leave an unbonded section of tape in the expansion area. Dependent on the installation and loading e.g. overhead use or negative water pressure, a reinforcing or supporting construction may be necessary.

3.3.2 Hot air welding:

The joint tapes are cut to suit the project (butt joints or corner joints) and laid on a flat substrate. Butt joints are to be overlapped by a min. 5 cm. The overlap area is to be roughened with abrasive paper and cleaned. Welding is carried out with hot air equipment with a wide nozzle and a pressure roller. The welding temperature (reference values: approx. 300-350 °C) is to be set by a trial weld. The joints in the tapes are laid on top of one another appropriately and fixed at the edges by selective welding in order to prevent slipping during welding. Then the wide nozzle of the hot air tool is drawn slowly and evenly over the overlap area and fully joined together with a pressure roller. Before installing check the weld for a complete watertight bond.

3.4 Cleaning:

During continued application, all tools must be regularly & thoroughly cleaned with water and/or solvent (ASO-R001) every 25 to 40 minutes (dependant on temperature) to prevent the product from setting on tool surfaces. Thorough cleaning must also be carried out immediately at the end of works or whenever work is suspended.

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