between the outdoor tank and the foundation with the waterproof sheet is important, and in particular, complete coverage of an outer periphery of the waterproof sheet with a sealant is important, especially at the initial stage of treatment.

[0006]

Embodiments of the invention provide a method for the waterproof treatment of an outdoor tank as defined below.

According to an aspect, there is provided a method of waterproof treating an outdoor tank installed on a foundation, a boundary region being defined between the bottom of the outdoor tank and the foundation, the method comprising the step of attaching a plurality of waterproof sheets ~~comprising a rubber base made of a silicone rubber and a pressure-sensitive adhesive layer made of a silicone resin or silicone gel having pressure-sensitive adhesive properties and free of inorganic fillers~~ across the boundary region so as to extend from the outdoor tank to the foundation for thereby forming a liquid tight cover to the boundary region, wherein a plurality of waterproof sheets are juxtaposed to form a liquid tight cover to the boundary region and liquid-tightly overlapped to define an overlap between adjacent waterproof sheets, the overlap having a width of at least 5 mm, wherein the waterproof sheet comprises a rubber base made of silicone rubber and a pressure-sensitive adhesive layer made of a silicone resin or silicone gel having pressure-sensitive adhesive properties and free of inorganic fillers and stacked on one surface of the rubber base, the waterproof sheet being attached such that the pressure-sensitive adhesive surface extends across the boundary region from the outdoor tank to the foundation and the pressure-sensitive adhesive layer having a bond strength of 0.5 to 10 N/25 mm relative to the outdoor tank and 0.5 to 10 N/25 mm relative to the foundation, and wherein the waterproof sheet is

directly attached to the outdoor tank and the foundation without any primer and wherein the pressure-sensitive adhesive layer has an Asker C hardness of 15 to 30.

Preferably, a plurality of waterproof sheets are juxtaposed to form a liquid tight cover to the boundary region and liquid-tightly overlapped to define an overlap between adjacent waterproof sheets, the overlap having a width of at least 5 mm.

Preferably, the waterproof sheet is pressure-sensitive adhesive on at least one surface, and the waterproof sheet is attached such that the pressure-sensitive adhesive surface may extend across the boundary region from the outdoor tank to the foundation.

Preferably, the one surface of the waterproof sheet has a bond strength of 0.5 to 10 N/25 mm relative to the outdoor tank and 0.5 to 10 N/25 mm relative to the foundation.

Preferably, the waterproof sheet is directly attached to the outdoor tank and the foundation without any primer.

CLAIMS:

1. A method of waterproof treating an outdoor tank installed on a foundation, a boundary region being defined between the bottom of the outdoor tank and the foundation, the method comprising the step of attaching a plurality of waterproof sheets ~~comprising a rubber base made of a silicone rubber and a pressure-sensitive adhesive layer made of a silicone resin or silicone gel having pressure-sensitive adhesive properties and free of inorganic fillers~~ across the boundary region so as to extend from the outdoor tank to the foundation for thereby forming a liquid tight cover to the boundary region, wherein a plurality of waterproof sheets are juxtaposed to form a liquid tight cover to the boundary region and liquid-tightly overlapped to define an overlap between adjacent waterproof sheets, the overlap having a width of at least 5 mm,

wherein the waterproof sheet comprises a rubber base made of silicone rubber and a pressure-sensitive adhesive layer made of a silicone resin or silicone gel having pressure-sensitive adhesive properties and free of inorganic fillers and stacked on one surface of the rubber base, the waterproof sheet being attached such that the pressure-sensitive adhesive surface extends across the boundary region from the outdoor tank to the foundation and the pressure-sensitive adhesive layer having a bond strength of 0.5 to 10 N/25 mm relative to the outdoor tank and 0.5 to 10 N/25 mm relative to the foundation,

wherein the waterproof sheet is directly attached to the outdoor tank and the foundation without any primer, and

wherein the pressure-sensitive adhesive layer has an Asker C hardness of 15 to 30.

~~2. The waterproofing method of claim 1 wherein the waterproof sheet is pressure-sensitive adhesive on at least one surface, and the waterproof sheet is attached such that the pressure-sensitive adhesive surface may extend across the boundary region from the outdoor tank to the foundation.~~

~~3. The waterproofing method of claim 2 wherein the one surface of the waterproof sheet has a bond strength of 0.5 to 10 N/25 mm relative to the outdoor tank and 0.5 to 10 N/25 mm relative to the foundation.~~

~~4. The waterproofing method of any one of claims 1 to 3 wherein the waterproof sheet is directly attached to the outdoor tank and the foundation without any primer.~~

~~5~~2. The waterproofing method of ~~any one of~~ claim~~s~~ 1 ~~to 4~~ wherein the foundation is made of concrete, mortar, asphalt concrete, asphalt mortar, or asphalt sand.

~~6~~3. The waterproofing method of any one of claims 1 to ~~5~~2, further comprising the step of applying a sealant to a tank side edge portion and a foundation side edge portion of the waterproof sheet.

~~7~~4. The waterproofing method of claim ~~6~~ 3 wherein the sealant is a silicone base sealant.

~~8. The waterproofing method of any one of claims 1 to 7 wherein the waterproof sheet has an Asker C hardness of 15 to 30.~~