CLAIMS

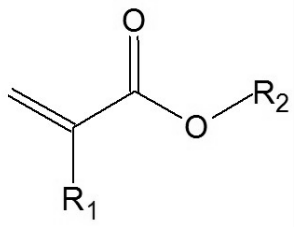
1. A liquid leakage repair material, comprising:

a curable composition,

wherein a liquid absorption rate of the liquid leakage repair material after cured is lower than 10%,

wherein the liquid leakage repair material comprises an inorganic filler in an amount of 20% by mass or greater but 95% by mass or less, and

wherein the liquid leakage repair material comprises a monofunctional (meth)acrylate represented by formula (1) below, a multifunctional (meth)acrylate, and a radical initiator,



---General formula (1)

where in General formula (1), R_1 represents a hydrogen atom or a methyl group, and R_2 represents an organic group containing four or more carbon atoms.

2. The liquid leakage repair material according to claim 1,

wherein the liquid leakage repair material is free of stringiness.

3. The liquid leakage repair material according to claim 1 or 2,

wherein a viscosity of the liquid leakage repair material is 0.1 Pa·s or higher but 100,000 Pa·s or lower.

4. The liquid leakage repair material according to any one of claims 1 to 3,

wherein the curable composition is an active-energy-ray-curable composition.

5. The liquid leakage repair material according to any one of claims 1 to 4,

wherein the liquid leakage repair material has a shear adhesive strength of 0.15 MPa or greater.

6. The liquid leakage repair material according to any one of claims 1 to 5, wherein when the liquid leakage repair material is cured, a time taken until a storage modulus G' of the liquid leakage repair material reaches 0.07 MPa is 0.50 minutes or shorter.

7. A liquid leakage repairing method, comprising:

applying the liquid leakage repair material according to any one of claims 1 to 6, which is an active-energy-ray-curable composition, over a liquid-leaked portion of a duct, and irradiating the liquid leakage repair material with active energy rays to cure the liquid leakage repair material.

8. A duct including a liquid-leaked portion, the duct comprising:

a cured product of the liquid leakage repair material according to any one of claims 1 to 6 over the liquid-leaked portion.

9. A liquid leakage repairing method, comprising:

disposing a first liquid leakage repair material, which is a curable composition, around a liquid-leaked portion of a duct and curing the first liquid leakage repair material, to thereby form a liquid reservoir; and

disposing a second liquid leakage repair material, which is a curable composition, in a manner to cover the liquid reservoir and curing the second liquid leakage repair material,

wherein the first liquid leakage repair material and the second liquid leakage repair material are each the liquid leakage repair material according to any one of claims 1 to 6.

10. A liquid leakage repairing method, comprising:

disposing a first liquid leakage repair material, which is a curable composition, at a part of a liquid-leaked portion of a duct and curing the first liquid leakage repair material, to thereby shrink an exposed part of the liquid-leaked portion;

disposing a second liquid leakage repair material, which is a curable composition, around the exposed part shrunk and curing the second liquid leakage repair material, to thereby form a liquid reservoir; and

disposing a third liquid leakage repair material, which is a curable composition, in a manner to cover the liquid reservoir and curing the third liquid leakage repair material,

wherein the first liquid leakage repair material, the second liquid leakage repair material, and the third liquid leakage repair material are each the liquid leakage repair material according to any one of claims 1 to 6.

11. A liquid leakage repairing method, comprising:

disposing a cured product of a first liquid leakage repair material, which is a curable composition, at a part of a liquid-leaked portion of a duct and also disposing the cured product around an exposed part of the liquid-leaked portion, which is a remaining part of the liquid-leaked portion other than the part, to thereby form a liquid reservoir; and

further disposing a second liquid leakage repair material, which is a curable composition, in a manner to cover the liquid reservoir and curing the second liquid leakage repair material,

wherein the first liquid leakage repair material and the second liquid leakage repair material are each the liquid leakage repair material according to any one of claims 1 to 6.