CLAIMS

1. A sizing composition for insulating products based on mineral wool, **characterized in that** it is a sprayable aqueous solution comprising

- at least one non-reducing saccharide which is sucrose,
- at least one hydrogenated saccharide selected from erythritol, arabitol, xylitol, mannitol, iditol, maltitol, isomaltitol, lactitol, cellobitol, palatinitol, maltotritol and hydrogenation products of starch hydrolysates, the hydrogenated saccharide(s) representing from 40% to 80% of the total weight of non-reducing saccharide(s) and hydrogenated saccharide(s),
- at least one polycarboxylic organic acid,

and

- at least 1 % by weight and up to 20 % by weight of the total weight of the non-reducing saccharide(s), of the hydrogenated saccharide(s) and of polycarboxylic organic acid(s), of a catalyst selected from the group consisting of Lewis bases and acids, phosphorus-containing compounds and compounds containing fluorine and boron.

2. The composition as claimed in claim 1, **characterized in that** the hydrogenated saccharide is the hydrogenation product of a starch hydrolysate, preferably a maltitol syrup.

3. The composition as claimed in one of claims 1 to 2, **characterized in that** the polycarboxylic organic acid comprises at least two carboxylic functions, preferably at most 15, and advantageously two to four carboxylic functions.

4. The composition as claimed in claim 3, **characterized in that** the polycarboxylic organic acid has a number-average molar mass of less than or equal to 1000, preferably less than or equal to 750 and advantageously less than or equal to 500.

5. The composition as claimed in claim 4, **characterized in that** the polycarboxylic organic acid is a saturated or unsaturated and straight or branched acyclic acid, a cyclic acid or an aromatic acid.

6. The composition as claimed in claim 5, **characterized in that** the polycarboxylic organic acid is chosen from oxalic acid, malonic acid, succinic acid, glutamic acid, adipic acid, pimelic acid, suberic acid, azelaic acid, sebacic acid, malic acid, tartaric acid, tartronic acid, aspartic acid, glutamic acid, fumaric acid, itaconic acid, maleic acid, traumatic acid, camphoric acid, phthalic acid and its derivatives, tetrahydrophthalic acid and its derivatives, isophthalic acid, terephthalic acid, mesoconic acid, citraconic acid, citric acid, tricarballylic acid, 1,2,4-butanetricarboxylic acid, aconitic acid, hemimellitic acid, trimellitic acid, trimesic acid, 1,2,3,4-butanetetracarboxylic acid and pyromellitic acid.

7. The composition as claimed in claim 6, **characterized in that** the polycarboxylic organic acid is citric acid.

8. The composition as claimed in one of claims 1 to 7, **characterized in that** the non-reducing saccharide(s) and the hydrogenated saccharide(s) represent from 10% to 90% of the weight of the mixture consisting of the non-reducing saccharide(s), the hydrogenated saccharide(s) and the polycarboxylic organic acid(s), preferably from 20% to 85%, advantageously from 30% to 80%, even better still from 40% to 65% and particularly advantageously from 45% to 65%.

9. The composition as claimed in claim 1, **characterized in that** the catalyst represents up to 10% of the total weight of the non-reducing

saccharide(s), of the hydrogenated saccharide(s) and of polycarboxylic organic acid(s).

10. The composition as claimed in one of claims 1 to 9, **characterized in that** it also comprises the additives below in the following proportions calculated on the basis of 100 parts by weight of non-reducing saccharide(s), of hydrogenated saccharide(s) and of polycarboxylic organic acid(s):

- 0 to 2 parts of silane, in particular an aminosilane or an epoxy silane,
- 0 to 40 parts of oil, preferably 0 to 30 parts, in particular 4 to 24 parts,
- 0 to 30 parts of urea, preferably 0 to 20 parts, and advantageously 0 part,
- 0 to 5 parts of a silicone,
- 0 to 20 parts of a polyol other than the abovementioned saccharides,
- 0 to 15 parts of metal sulfate or ammonium sulfate, preferably 0 to 10 parts, and advantageously 0 to 5 parts,
- 0 to 30 parts of an “extender” chosen from lignin derivatives, such as ammonium lignosulfonate or sodium lignosulfonate, and animal or plant proteins.

11. An acoustic and/or thermal insulating product based on mineral wool, in particular of glass or of rock, sized using the sizing composition as claimed in one of claims 1 to 10.

12. A net of mineral fibers, in particular of glass or of rock, sized using the sizing composition as claimed in one of claims 1 to 10.