Claims:

1. Sealing gels having a Mooney viscosity (ML1+4) @ 100°C of 100 MU to 170 MU,

i) in the form of a mixture comprising diene rubber gel (A), having a Mooney viscosity (ML1+4) @ 100°C of 170 MU to 195 MU, obtained by emulsion polymerization, at 5°C to 20°C, of at least one conjugated diene in the presence of at least one crosslinker (I) and diene rubber gel (B), having a Mooney viscosity (ML1+4) @ 100°C of 75 MU to 110 MU, obtained by emulsion polymerization, at 5°C to 20°C, of at least one conjugated diene in the presence of at least one crosslinker (II) or

ii) obtained by emulsion polymerization, at 5°C to 20°C, of at least one conjugated diene in the presence of at least one crosslinker (I) and in the presence of at least one crosslinker (II),

where

crosslinkers (I) are acrylates and methacrylates of polyhydric C_2-C_{20} alcohols,

and

crosslinkers (II) are compounds having two or more vinyl, allyl or isopropenyl groups or one maleimide unit.

2. Sealing gels according to Claim 1, wherein the crosslinkers (I) are selected from the group consisting of acrylates and methacrylates of ethylene glycol, propane-1,2-diol, butane-1,4-diol, hexanediol, polyethylene glycol having 2 to 8 or 2 to 4 oxyethylene units, neopentyl glycol, bisphenol A, glycerol, trimethylolpropane, pentaerythritol, sorbitol with unsaturated polyesters of aliphatic di- and polyols and mixtures thereof.

3. Sealing gels according to Claim 2, wherein the crosslinkers (I) are selected from the group consisting of acrylates and methacrylates of propane-1,2-diol, butane-1,4-diol, neopentyl glycol, bisphenol A, glycerol, trimethylolpropane and pentaerythritol.

4. Sealing gels according to Claim 3, wherein the crosslinker (I) is trimethylolpropane trimethacrylate (TMPTMA).

5. Sealing gels according to any one of the preceding Claims, wherein the crosslinkers (II) are selected from the group consisting of diisopropenylbenzene, divinylbenzene (DVB), divinyl ether, divinyl sulphone, diallyl phthalate, trivinylbenzene, triallyl

cyanurate, triallyl isocyanurate, 1,2-polybutadiene, N,N'-m-phenylenemaleimide, tolylene-2,4-bis(maleimide) and triallyl trimellitate and mixtures thereof.

6. Sealing gels according to Claim 5, wherein the crosslinker (II) are selected from the group consisting of diisopropenylbenzene, divinylbenzene and trivinylbenzene.

7. Sealing gels according to Claim 6, wherein the crosslinker (II) is divinylbenzene.

8. Sealing gels according to any one of the preceding Claims, characterized in that the at least one conjugated diene is 1,3-butadiene, 2,3-dimethyl-1,3-butadiene, isoprene or chloroprene, preferably 1,3-butadiene.

9. Sealing gels according to Claim 8, characterized in that further monomers are used in the emulsion polymerization of the at least one conjugated diene, wherein said further monomers are 1,3-butadiene, vinylaromatics, preferably styrene, 2-methylstyrene, 3-methylstyrene, 4-methylstyrene, α-methylstyrene, 2,4-dimethylstyrene, 2,4-diisopropylstyrene, 4-tert-butylstyrene or tert-butoxystyrene, more preferably styrene, acrylonitrile, isoprene, esters of acrylic acid and methacrylic acid, tetrafluoroethylene, vinylidene fluoride, hexafluoropropene, 2-chlorobutadiene, 2,3-dichlorobutadiene, carboxylic acids containing double bonds, preferably acrylic acid, methacrylic acid, maleic acid or itaconic acid, hydroxyl compounds containing double bonds, preferably hydroxyethyl methacrylate, hydroxyethyl acrylate or hydroxybutyl methacrylate, amine-functionalized (meth)acrylates, glycidyl methacrylate, acrolein, N-vinyl-2-pyrrolidone, N-allylurea, N-allylthiourea, secondary amino (meth)acrylates, preferably 2-tert-butylaminoethyl methacrylate and 2-tert-butylaminoethylmethacrylamide, or vinylic heteroaromatics such as 2-, 4-vinylpyridine and 1-vinylimidazole.

10. Sealing gels according to Claim 9, characterized in that the at least one conjugated diene is 1,3-butadiene and the further monomer is styrene and

wherein said emulsion polymerization is performed at 5°C to 20°C.

11. Sealing gels according to any of Claims 1 to 10, characterized in that 1,3-butadiene is used as at least one conjugated diene and the diene rubber gels and the sealing gels have a proportion of cis-1,4-butadiene units of 8% by weight to 17% by weight, a proportion of trans-1,4-butadiene units of 59% by weight to 75% by weight and a proportion of 1,2-vinylbutadiene units of 17% by weight to 21% by weight, based on 1,3-butadiene incorporated.

12. Sealing gels according to any of Claims 1 to 11, characterized in that the amount of crosslinker (I) is typically 1 phm to 6 phm, preferably 1 phm to 4 phm, and more preferably 1.5 phm to 3 phm, based on the total amount of diene monomer, further monomer and crosslinker.

13. Sealing gels according to any of Claims 1 to 12, characterized in that the amount of crosslinker (II) is typically 0.2 phm to 4 phm, preferably 0.2 phm to 3 phm, and more preferably 0.5 phm to 2.7 phm, based on the total amount of diene monomer, further monomer and crosslinker.

14. Sealing gels according to any of Claims 1 to 13, wherein the amount of further monomer in the diene rubber gel is typically 1 phm to 20 phm, and preferably 8 phm to 14 phm, based on the total amount of monomers and crosslinkers, and the amount of diene monomer in the diene rubber gel is typically 79.8 phm to 98.8 phm, preferably 86 phm to 91.8 phm, based on the total amount of diene monomer, further monomer and crosslinker.

15. Sealing gels according to any of Claims 1 to 13, wherein the ratio of the diene rubber gels (A) and (B) is (1:9) to (9:1), preferably (4:1) to (1:4), more preferably (2.5:1) to (1:2.5).

16. Sealing gels according to any of Claims 1 to 15, obtainable by mixing the diene rubber gels (A) and/or (B) with sealing gel (H).

17. Sealing compounds comprising

at least one sealing gel according to any of Claims 1 to 16 in an amount of 45 phr to 100 phr, preferably 60 phr to 100 phr and more preferably 70 phr to 100 phr,

resin (C) in an amount of 10 phr to 60 phr, preferably 20 phr to 50 phr and more preferably 25 phr to 45 phr, and

optionally a natural rubber or synthetic rubber (E), preferably copolymers based on conjugated diolefins from a group comprising 1,3-butadiene, isoprene, 2,3-dimethyl-1,3-butadiene, 1,3-pentadiene, 1,3-hexadiene, 3-butyl-1,3-octadiene, 2-phenyl-1,3-butadiene or mixtures thereof, more preferably from a group comprising natural cis-1,4-polyisoprene, synthetic cis-1,4-polyisoprene, 3,4-polyisoprene, polybutadiene, 1,3-butadiene-acrylonitrile copolymer and mixtures thereof, in an amount of 0 phr to 55 phr, preferably 0 phr to 40 phr and more preferably 0 phr to 30 phr,

based in each case on the total amount of sealing gel and optionally natural and/or synthetic rubber (E) in the sealing compound.

18. Sealing compounds according to Claim 17, comprising

ageing stabilizer (D), preferably in an amount of 1 phr to 10 phr and more preferably in an amount of 1 phr to 5 phr.

19. Sealing compounds according to Claim 17 or 18, comprising

plasticizer (F), preferably 10 phr to 50 phr and more preferably 15 phr to 40 phr of at least one plasticizer (F).

20. Sealing compounds according to any of Claims 17 to 19, comprising

at least one filler (G) in an amount of 1 phr to 50 phr, preferably 1 phr to 30 phr and more preferably 1 phr to 20 phr.

21. Process for producing sealing compounds according to any of Claims 17 to 20, by mixing the components in solid or liquid form.

22. Process for producing sealing compounds according to any of Claims 17 to 20, by mixing the rubber components in the form of their latices and co-processing and mixing the further components, preferably in the form of suspensions.

23. Use of sealing gels according to any of Claims 1 to 15 in sealing compounds, especially for improving adhesion and cohesion properties.

24. Use of sealing compounds according to any of Claims 17 to 19 as sealing layer in tyres, preferably on inner liners in pneumatic motor vehicle tyres, hollow bodies or membranes.

25. Pneumatic motor vehicle tyres having a sealing gel-containing sealing compound comprising a sealing gel according to Claims 1 to 15.