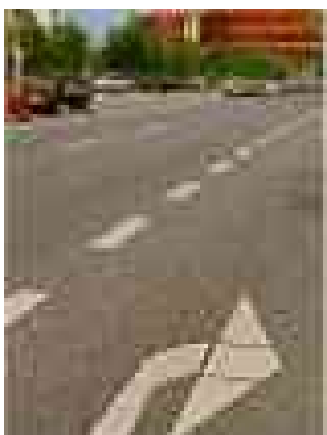


BuuMsorb® Type II R

Universal binding agent for absorbing environmentally hazardous substances



- 100% natural product - harmless to humans, flora and fauna.
- no abrasive or chemical components
- harmless in terms of occupational health and safety
- absorbs oil and fuels - **on solid ground and on water**
- absorbs liquid and pasty substances - chemicals, paint, solvents
- low flammability



- **grain size** < 0,5 - > 4,0 mm
- **bulk weight** 180 - 200 g/ l
- **sales unit** - 10 kg bag / ca.50 l
absorbs approximately 28 l / HEL (test fluid - extra light heating oil)
- **packaging unit** - CP1- pallet with 50 bags

- **Test results on the absorption of BuuMsorb® Type II R**
according to the guidelines of the Federal Institute for Materials Research (BAM) by an independent testing institute (Dr. Biernath-Wüpping GmbH-IGH)
- The conversions of the test results contained in volume and mass data was carried out by determining the bulk weight of the test material and literature data on the density of the test liquid to be absorbed.
- Higher-viscous liquid in a volume measurement was inadequate, only a qualitative assessment was made.

1. Absorption effect towards hydrous liquids

| Liquid | Substances or major Components | 1 Litre BuuMsorb® absorbs | 1 Kilo BuuMsorb® absorbs | Condition after 48 hours storage time | Color |
|-------------------------------|--------------------------------|---------------------------|--------------------------|---------------------------------------|-------------|
| ammonia-concentrate | alkalis | 1,08 l | 5,43 l | dry, pourable | dark brown |
| ammonia-diluted 10% | alkalis | 1,09 l | 5,45 l | dry, pourable | brown |
| fixing bath | saline solutions | 0,58 l | 2,89 l | dry, pourable | light brown |
| sodium hydroxide-33% | alkalis | 1,11 l | 5,54 l | solid | dark brown |
| phosphoric acid-85% | inorganic acids | 1,06 l | 5,35 l | moist, sticky | dark brown |
| hydrochloric acid-concentrate | inorganic acids | 1,03 l | 5,15 l | dry, pourable | brown |
| hydrochloric acid-diluted 10% | inorganic acids | 0,75 l | 3,72 l | dry, pourable | brown |
| sulfuric acid-concentrate | inorganic acids | 1,52 l | 7,60 l | moist, sticky, solid | black |
| sulfuric acid-diluted 10% | inorganic acids | 0,79 l | 3,95 l | moist | brown |

2. Absorption effect towards organic liquids

| Liquid | Substances or major Components | 1 Litre BuuMsorb® absorbs | 1 Kilo BuuMsorb® absorbs | Condition after 48 hours storage time | Color |
|----------------|--------------------------------|---------------------------|--------------------------|---------------------------------------|-------------|
| paint stripper | chlorinehydrocarbon /alcohols | * | * | dry, solid | brown |
| acetaldehyd | aldehydes | 1,06 l | 5,33 l | dry, pourable | light brown |
| acetone | ketones | 0,60 l | 2,99 l | dry, pourable | light brown |
| aniline | amines | 0,81 l | 4,07 l | dry, pourable | light brown |
| bitumen paint | hydrocarbon-solution | * | * | moist, sticky | black |
| paint-white | binder/ pigment/ solvent | 1,34 l | 6,69 l | dry, solid | white |
| aqua-red | pigmented color | 1,37 l | 6,84 l | dry, solid | red |

| | | | | | |
|-------------------------|--------------------------|---------------|---------------|----------------------|------------------|
| benzoyl chloride | acid chlorides | 0,74 l | 3,71 l | dry, pourable | light brown |
| butylene glycol | polyalcohols | 1,08 l | 5,40 l | moist, sticky | red brown |
| dibutylamine | amines | 0,64 l | 3,20 l | dry, pourable | light brown |
| chloroform | chlorinehydrocarbon | 0,73 l | 3,65 l | dry, pourable | light brown |
| diesel fuel | fuels | 0,60 l | 3,00 l | moist, sticky | red brown |
| diethylether | ether | 0,65 l | 3,24 l | dry, pourable | light brown |
| acetic acid concentrate | organic acids | 0,74 l | 3,70 l | dry, pourable | light brown |
| ethyl alcohol | alcohols | 0,67 l | 3,36 l | dry, pourable | light brown |
| aviation turbine fuel | fuels | 0,50 l | 2,53 l | dry, pourable | light brown |
| photo developer | organic salt solutions | 0,99 l | 4,93 l | dry, pourable | dark brown |
| glycol | polyalcohols | 1,03 l | 5,17 l | moist, sticky | red brown |
| heating oil EL | fuels-liquid | 0,56 l | 2,80 l | moist, sticky | red brown |
| heating oil S | fuels-liquid | * | * | moist, sticky | |
| heptane | hydrocarbons | 0,50 l | 2,52 l | dry, pourable | light brown |
| lacquer-colorless | binder / solvent | * | * | dry, solid | red brown |
| engine lube oil | lubricants | 0,79 l | 3,93 l | moist, sticky | red brown |
| petrol | fuels | 0,45 l | 2,23 l | dry, pourable | brown |
| pyridine | organic bases | 1,03 l | 5,14 l | dry, pourable | brown |
| crude oil | hydrocarbons / compounds | 0,70 l | 3,50 l | moist, sticky | black |
| styrene | aromatic hydrocarbons | 0,65 l | 3,22 l | dry, pourable | light brown |
| tar oil | hydrocarbons / compounds | * | * | moist, movable | black |
| carbon-tetrachloride | chlorinated hydrocarbons | 1,69 l | 8,44 l | dry, pourable | light brown |
| toluene | aromatic hydrocarbons | 0,71 l | 3,54 l | dry, pourable | light brown |
| plasticizer | ester | 0,40 l | 2,01 l | moist, movable | red brown |

For the preparation of an official certificate the test fluid is **fuel oil (extra light).**