

Hanson Construction Aggregates

Technical Data Sheet



HEALTH AND SAFETY

- As with all naturally occurring gravels and silica sands, small amounts of respirable quartz may be present.
- The aggregates such as 14mm Dust Limestone Chippings are unlikely to contain respirable silica but we recommend that the same precautions are taken.
- If inhaled in excessive quantities over extended periods, respirable quartz can constitute a long term health hazard.
- Do not breathe dust.
- Avoid eye contact.
- In case of contact with eyes, rinse immediately with plenty of water, avoiding rubbing action. Should irritation persist, obtain medical advice.

For cementitious mixes, follow health and safety advice detailed for cement.
For further advice, please call the Hanson Cement Customer Services on
0330 123 2074

For further information contact:

Hanson Packed Products Limited
c/o Hanson Cement
Ketton
Stamford
Rutland
PE9 3SX

Customer Services:

Tel: 0330 123 2074
Fax: 01780 727008
Email: cement@hanson.com

20mm Gravel

Technical Data Sheet



PACK SIZE

Maxipack
Bulk

DESCRIPTION

20mm single-sized gravel aggregate conforming to the requirements of BS EN 12620: 2013.

Typical moisture content 3%.

Particle size 10 – 20mm.

Shell content ≤ 10 .

Chloride content $\leq 0,01\%$.

Acid soluble sulphate ≤ 0.8 .

USES

In combination with cement, sharp sand and water in suitable mix designs to produce concretes for footings, foundations, setting posts, steps, etc. May also be used as a top dressing for paths and drive ways.

PRODUCTION PREPARATION AND CONTROL OF CONCRETE

All the constituents should be thoroughly mixed prior to the addition of water. Sufficient water should then be added to give a suitable consistence for placing and compaction. On completion of compaction and finishing the concrete surface, a covering should be placed to prevent loss of moisture (curing) and surface damage. For best results and highest strength development the concrete should be protected for 7 days.

MIX DESIGN ADVICE

The suggested mix design given below is a standard 1:2:4 mix and is suitable for most domestic applications. For further advice please consult BS 8500 Concrete Part 1 Methods of specifying and guidance for the specifier table A 7 and BS 8500 Concrete Part 2 Specification for materials for concrete Table 12, which gives detailed advice.



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SUGGESTED MIX DESIGNS

For coarse concrete mixes

- 1 part cement.
- 2 parts sharp sand.
- 4 parts 20mm Gravel.

COVERAGE

One Maxipack bag

As a coarse concrete mix sufficient for 0.35m² @ 50mm depth.

As a top dressing – approx 0.4m² @ 50mm depth.

One Bulk bag

In the above concrete mix 4.5m² @ 100mm depth.

As a top dressing – 12m² @ 50mm depth.

CLEANING

Clean down tools and equipment with water prior to the material setting.



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10mm Gravel

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PACK SIZE

Maxipack
Bulk

DESCRIPTION

10mm single-sized gravel aggregate conforming to the requirements of BS EN 12620: 2013.

Typical moisture content 3%.

Particle size 4 – 10mm.

Shell content ≤ 10 .

Chloride content $\leq 0,01\%$.

Acid soluble sulphate ≤ 0.8 .

USES

With cement, sharp sand and water to produce fine concretes. This product is suitable for paths, patios, setting posts, steps and the top dressing for paths and driveways.

SUGGESTED MIX DESIGNS

For fine concrete mixes

1 part Ordinary Portland Cement.

2 parts sharp sand.

4 parts 10mm Gravel.

COVERAGE

One Maxipack bag

As a fine concrete mix sufficient for 0.35m^2 @ 50mm depth.

As a top dressing – approx 0.4m^2 @ 50mm depth.

One Bulk bag

As a fine concrete mix – 9m^2 @ 50mm depth.

As a top dressing – 12m^2 @ 50mm depth.

CLEANING

Clean down tools and equipment with water prior to the material setting.



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20mm Ballast

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PACK SIZE

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DESCRIPTION

20mm single-sized gravel aggregate conforming to the requirements of BS EN 12620: 2013.

Typical moisture content 3%.

Particle size 0 – 20mm.

Shell content ≤ 10 .

Chloride content $\leq 0,01\%$.

Acid soluble sulphate ≤ 0.8 .

USES

As an 'all-in-one' aggregate with cement and water to produce coarse concretes. This product is suitable for footings, foundations, setting posts, steps, etc.

SUGGESTED MIX DESIGNS

For coarse concrete mixes

1 part Ordinary Portland Cement.

6 parts 20mm Ballast.

COVERAGE

One Maxipack bag

As a coarse concrete mix sufficient for 0.35m^2 @ 50mm depth.

One Bulk bag

12.6m^2 @ 50mm depth.

CLEANING

Clean down tools and equipment with water prior to the material setting.



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14mm Dust Limestone Chippings

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PACK SIZE

Maxipack
Bulk

DESCRIPTION

14mm dust dolomitic limestone chipping conforming to the requirements of BS EN 12620: 2013.

USES

Blinding layer, bulk and general fill.

COVERAGE

One Maxipack bag

0.014m³ if compacted as blinding layer.

0.017m³ if used as general fill.

One Bulk bag

0.5m³ if compacted.

0.6m³ if general fill.

CLEANING

Clean down tools and equipment with water prior to the material setting.



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Grano Dust

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PACK SIZE

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Bulk

DESCRIPTION

4mm dust granitic material conforming to the requirements of BS EN 12620: 2013.

USES

When mixed with sand and cement produces a mortar ideally suited for floor screeds, monolithic and granolithic.

SUGGESTED MIX DESIGNS

Heavy duty 12mm depth

Cement 50kg.

Dried sharp sand 88kg.

Grano Dust 88kg.

Heavy duty 20-34mm depth

Cement 50kg.

3mm sand 150kg.

Grano Dust 50kg.

Note – the above are only suggested mix designs, the user should carry out trials and adapt designs to their own needs.

CLEANING

Clean down tools and equipment with water prior to the material setting.

USES

Do not use when air temperature below 2°C or when ground frozen.

Wet mortar should be protected from drying out too rapidly. Cover placed material with plastic sheet or wet hessian.

Allow concrete to dry sufficiently (time dependent on ambient conditions), prior to proceeding with further works.



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MOT Type 1 Aggregate for road construction

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PACK SIZE

Bulk

DESCRIPTION

Crushed aggregate conforming to the requirements of BS EN 13242:2013
Aggregates for unbound and hydraulically bound materials for use in civil
engineering and road construction.

USES

Suitable for forming sub base or base layers to support other construction
such as concrete drives or other paving materials. Will only perform if applied
to suitable prepared sub grade and if compacted to form a dense layer.
May also be combined with cement to produce a higher bearing capacity.

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Pea Gravel

Technical Data Sheet



PACK SIZE

Maxipack
Bulk

DESCRIPTION

10mm single-sized gravel aggregate conforming to the requirements of BS EN 12620: 2013.

Typical moisture content 3%.

Particle size 0 – 20mm.

Shell content ≤ 10 .

Chloride content $\leq 0,01\%$.

Acid soluble sulphate ≤ 0.8 .



USES

With cement, sharp sand and water to produce fine concretes. This product is suitable for paths, patios, setting posts, steps and the top dressing for paths and driveways.

SUGGESTED MIX DESIGNS

For fine concrete mixes

1 part Ordinary Portland Cement.

2 parts Sharp Sand.

4 parts Pea Gravel.

COVERAGE

One Maxipack bag = 0.0175m³

As a fine concrete mix sufficient for 0.35m² @ 50mm depth.

As a top dressing – approx 0.4m² @ 50mm depth.

One Bulk bag = 0.63m³

As a fine concrete mix sufficient for 12.6m² @ 50mm depth.

As a top dressing – approx 14.4m² @ 50mm depth.

CLEANING

Clean down tools and equipment with water prior to the material setting.

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