Spec sheet on pouring concrete suitable for polishing

Concrete must be laid extremely well and flat.

Make sure concrete is floated up to the edge of the wall.

For uniformity, all rooms should be poured together and partition walls installed after the concrete is polished.

Un-bonded concrete screeds should be a minimum thickness of 75mm.

Strength between 30n and 40n but preferably 35n

Use control joints. These can be saw cuts into the surface of the concrete or plastic crack inducers. Be selective about these and try to place them underneath closed doors and in places where they won't spoil the look of the finished product……or make a feature out of them!

Crack inducers must be used every 36 M2 or where there is a 90 degree turn in the floor. This will help prevent cracks occurring.

Do not have any services running through your concrete slab. Have them running through your sub floor.

Use polypropylene fibres in your concrete mix.

Do not add water when it arrives at site or during the pour, less water means less shrinkage which causes cracks. It will also cause the aggregate to sink.

Use a membrane under the concrete. This acts as a de-bonding agent and also stops water from running away from the mix.

Use perimeter insulation and a compressible material around rising wall.

Do not tamp the concrete into place.
Concrete should be fully compacted using a vibrating screed.

Your concrete floor must be power floated to an SR1 Specification.

We add a penetrating seal for added resistance to the finished floor, this will not prevent staining it just gives you extra time to wipe up any spills before it seeps into the stone.

To render your concrete floor fully stain resistant you can apply a surface seal. This however can lead to traffic marks and will take away from the appearance of your polished concrete floor.

Polished concrete floors have the same slip resistance as polished marble, granite or porcelain. To give them a R10 slip resistance rating they will need to be treated with a special slip resistant coating.

Underfloor heating is ideal for polished concrete floors as concrete is an excellent conductor of heat and retains heat for a long time.

For any further information please visit our website PMAC or don’t hesitate to contact us at 01 473 3666