

OPTAPIX PA 53

Temporary binder



Chemical basis:

Polyvinyl alcohol preparation

Characteristics:

Appearance:	bright yellow granulate
Solubility:	water-soluble
Bulk density:	approx. 400 - 600g/l
pH (4%):	approx. 4 - 7
Viscosity	
15%, 20°C:	approx. 850mPas
Residue on ignition:	max. 0.5%

Shelf-life / Packaging:

12 months when stored properly and dry
bags of 20kg

Application:

OPTAPIX PA 53 brings about an increase in the green and dry breaking strength. On account of its good general slip compatibility it is particularly suitable for the preparation of ceramic bodies by spray granulation.

The mode of action of OPTAPIX PA 53, as a temporary binder, depends on the creation of adhesive forces between the raw material particles. A suitable binder-water ratio allows the formation of a film, which attaches itself to the raw material particles and, thus, brings about adhesion.

OPTAPIX PA 53 already contains a pressing aid. This acts as a pressure equalising agent between individual granules, reducing friction and hence leading to homogenous compaction during pressing. The constitution of the pressing aid makes the granules softer and easier to press, thus eliminating all structures in the pressed part that could adversely affect the structural integrity of the finished product.

The availability of a combined binder/pressing aid makes dosage simpler for the user during the process of manufacture.

The amount added is between 0.5 to 2.0% of the solids content of the body.

The above results have been obtained from trials in our laboratory and plant. In the light of changing conditions they can serve only as a guide and are therefore offered without obligation. We ask you to observe the possible rights of third parties.

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The additive should be incorporated into the ceramic body or slip in the form of a 10 to 20% stock solution. In order to produce clear stable solutions the granules should be scattered with stirring, into cold water, and then dissolved by heating to ca. 80°C. However, ready dissolved preparations are available.

Note:

Please note that when using OPTAPIX PA 53 in stock solutions, glazes and/or body slips, anti-bacterial biocide use is strongly recommended. Consequently, the dosage needs to be adapted to the process conditions.

Adequate products and their specific application instructions can be found on our homepage www.zschimmer-schwarz.com or will be sent to you upon request.

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