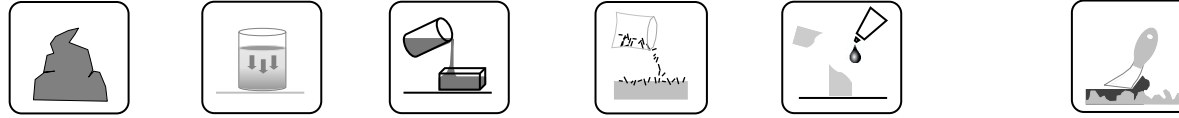


# Fillers



Products	FIELDS OF APPLICATION							DOSAGE by weight (approx.)	BULK WEIGHT (approx.)	FEATURES / BENIFITS
	... thicken / thixotroping	... anti settling	... backfilling	... coupling layer	... bonding, adhesion	... rough putty	... fine- / light-weight putty			
<b>HP-TH23</b> thixotroping agent, minerally based	+	-	++	-	-	K	-	up to 15%	190 - 200 g/l	Hygroscopic. Do not apply to direct water contact.
<b>HP-PK22</b> thixotroping agent, pyrogenic silica	++	++	K	K	K	K	K	0,5 - 5%	40 g/l	Hydrophobic = does not absorb water. Density: 2,2g/m <sup>3</sup> ; BET-Surface: 200m <sup>2</sup> /g Dosage depends on the viscosity and the temperature.
<b>HP-MB2</b> microballoons	-	-	++	-	-	K	++	up to 30%	140 - 150 g/l	Specific weight: 0,26g/cm <sup>3</sup> max. particle size: 200µm melting point: > 1200°C Particle size distribution (d50): 50µm
<b>HP-BF1</b> cotton flocks	K	-	++	++	++	++	K	up to 30%	70 - 90 g/l	Fibre length: 200 - 400µm Fibre thickness: 10 - 20 µm
<b>HP-GS3, HP-GS6</b> chopped glass fibre	-	-	++	++	++	++	-	up to 10%	350 - 400 g/l	Fibre length: 3 or 6mm Fibre thickness: 10 - 20 µm

++ = very good applicable   
 + = applicable   
 o = conditionally applicable   
 - = not provided   
 **K** = only in combination with + or ++

## Example formulation for PUTTYS:

- HP-E45KL (resin) : 50g
- (hardener) : 30g
- + HP-PK22 (thixo-agent) : 2g
- + HP-GS3/6 (chopped glass fibre) : 10g
- alternative for fine- / light-weight puttys
- HP-MB2 (microballoons) : 20g
- + HP-PK22 (perhaps add more) = approx.. 90-100g



## Example formulation for ADHESIVES:

- HP-E45KL (resin) : 50g
- (hardener) : 30g
- + HP-PK22 (thixo-agent) : 30g
- + HP-BF1 (cotton flocks) : 2g
- + HP-PK22 (perhaps add more) : 20g
- = approx. 100g



**All fillers are versatile with epoxy, vinylester and unsaturated polyester resins.**

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. It is the user's responsibility to determine for himself the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.

We recommend tests be performed for trials and suitability for the particular type of application.