

### Intended use

This Mipa spreadsheet of hardeners provides an overview of Mipa hardeners and their possible applications in combination with Mipa 2K primers and fillers, Mipa 2K epoxy resin primers and fillers, Mipa 2K topcoat systems and Mipa 2K clearcoat systems. For detailed processing instructions, please refer to the respective technical data sheet of the basic paint.

### Processing instructions

Legend: MR: mixing ratio; NIN: wet on wet

### Possible combinations with Mipa 2K primers and fillers

Mipa product	HS 5	HS 10	HS 25	MS 10	MS 25	MS 40	HX 25	H 5	H 10
Mipa 4 + 1 Acrylfüller HS	MR 6:1 by vol.			MR 4:1 by vol.				MR 4:1 by vol. / NIN 3:1 by vol.	
Mipa 2K-HS-Grundfüller F 54				MR 4:1 by vol.				MR 4:1 by vol.	
Mipa 2K-Multifüller		MR 6:1 by vol.		MR 4:1 by vol.					MR 4:1 by vol.
Mipa 2K-HS-Express-Füller FX 4								MR 4:1 by vol.	
Mipa 2K-HS-Express-Füller FX 5							MR 2:1 by vol.		
Mipa 2K-HS-Füllprimer				MR 5:1 by vol.					MR 5:1 by vol.
Mipa 2K-HS-Directfüller F 31	MR 3:1 by vol.								
Mipa 2K-HS-NiN-Füller F 37				MR 5:1 by vol.					MR 5:1 by vol.
Mipa 2K-Transparent Sealer				MR 2:1 by vol.					MR 2:1 by vol.
Mipa 2K-Acryl-Grundierfüller								MR 10:1 by weight	
Mipa 2K-Acrylgrund grau				MR 10:1 by weight / 7:1 by vol.					MR 10:1 by weight / 7:1 by vol.
Mipa 2K-Acryl-Epoxygrund		MR 6:1 by weight / 4:1 by vol.							

### Possible combinations with Mipa 2K epoxy resin primers and fillers

Mipa product	E 5	E 10	E 25	EPH
Mipa EP-Grundierfüller		MR 2:1 by vol.		
Mipa EP-Primer Surfacer	MR 2:1 by vol.			
Mipa 2K-EP-Expressprimer EPX				MR 1:1 by vol.

### Possible combinations with Mipa 2K topcoat systems

Mipa product	HS 10	HS 25	HS 35	MS 10	MS 25	MS 40
Mipa OC	MR 2:1 by vol.			MR 2:1 by vol.		
Mipa PUR HS	MR 3:1 by vol.			MR 2:1 by vol.		

### Possible combination with Mipa 2K clearcoat systems

Mipa product	HS 10	HS 25	HS 35	MS 10	MS 25	MS 40	HX 4	HX 25
Mipa 2K-HS-Klarlack CC 9	MR 2:1 by vol.							
Mipa 2K-HS-Klarlack CC 8	MR 2:1 by vol.							
Mipa 2K-HS-Klarlack CC 4	MR 2:1 by vol.							
Mipa 2K-HS-Klarlack CC 6	MR 2:1 by vol.							
Mipa 2K-HS-Carbonic-Klarlack	MR 2:1 by vol.							
Mipa 2K-HS-Express-Klarlack CX 4	MR 2:1 by vol.						MR 2:1 by vol.	
Mipa 2K-HS-Express-Klarlack CX 3								MR 1:1 by vol.
Mipa 2K-HS-Express-Klarlack CX 2	MR 2:1 by vol.							
Mipa 2K-Express-Klarlack CX 11		MR 2:1 by vol.						
Mipa 2K-HS-Klarlack CS 44	MR 2:1 by vol.							
Mipa 2K-HS-Klarlack CS 95	MR 2:1 by vol.			MR 2:1 by vol.				
Mipa 2K-HS-Klarlack CS 90	MR 3:1 by vol.			MR 2:1 by vol.				
Mipa 2K-HS-Klarlack CS 85	MR 2:1 by vol.							
Mipa 2K-Klarlack CMS					MR 2:1 by vol.			
Mipa 2K-Klarlack matt CM				MR 2:1 by vol.				
Mipa 2K-HS-Klarlack matt CCM		MR 3:1 by vol.			MR 2:1 by vol.			
Mipa 2K-HS-Klarlack CCD		MR 3:1 by vol.			MR 2:1 by vol.			
Mipa 2K-Klarlack CPE				MR 2:1 by vol.				

### List of Mipa hardeners:

**Mipa EP-Härter E 5** extra kurz

**Mipa EP-Härter E 10** kurz

**Mipa EP-Härter E 25** normal

### Mipa 2K-EP-Expresshärter EPH

**Mipa 2K-HS-Härter HS 5** extra kurz

**Mipa 2K-HS-Härter HS 10** kurz

**Mipa 2K-HS-Härter HS 25** normal

**Mipa 2K-HS-Härter HS 35** lang

**Mipa 2K-MS-Härter MS 10** kurz

**Mipa 2K-MS-Härter MS 25** normal

**Mipa 2K-MS-Härter MS 40** extra lang

### Mipa 2K-HS-Express-Härter HX 4

**Mipa 2K-HX-Härter HX 25** normal

**Mipa 2K-Härter H 5** extra kurz

**Mipa 2K-Härter H 10** kurz